

☐ Superintendent
☐ Accounting Department
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Prop. No.	WW-3551R1	Date	9-14-90	Customer	Taylor-Wharton Cylinders	☐
Agent	NONE			Address	9th & Herr Sts., P.O. Box 2365	
Address					Harrisburg, PA 17105	
Agent Order No.		Date		Cust. Ord. No.	P-006407	Date
Net \$	@	%	\$	Delivery	4-26-91 OR SOONER	Photo No.

MODIFICATIONS TO EXISTING WILLIAMS, WHITE AND COMPANY
2000 TON PRESS S/N C-4261 (formerly Chevrolet)

SPECIFICATIONS (As Modified)

CAPACITY (Tons)
Pressing ----- 2000
Stripping ----- 300
Net Lift (No Tooling Plate) ----- 25

DIMENSIONS (Inches)
Daylight (Over Bolster) ----- 125
Shut Height (Over Bolster) ----- 53
(Above Dimensions are from Slide Face to Top of Base)
Stroke ----- 72
Platens (R-L x F-B) ----- 120 x 96
Distance Between Housings (R-L) ----- 124

SPEEDS (Inches per Minute)
Close ----- 900
Pressing ----- 146
Stripping ----- 85
Open ----- 750

HYDRAULIC SYSTEM
Main Cylinders ----- (2) Double Acting
Kicker Cylinder ----- (1) Double Acting
Main Press Pumps ----- (5) Delaval CIG
Auxiliary Tooling Pumps ----- (2) Delaval CIG
Auxiliary Press Pump ----- (1) Delaval CIG

**Terms: 20% Down
25% at Dwg. Approval
20% at Factory Acceptance
20% at Shipment
5% at Final Acceptance Not to Exceed 60 days from receipt

Motor by	Mfr.	H.P.	Speed	Type	Frame	Brg.	Phase	Cycle	Volts
WW	G.E. (1) (7)	60 100	1800 1800	TEFC			60	3	460

STARTER FULL VOLTAGE

Terms:	** See Above	Ship to	Same as Above				
F.O.B.	Moline, Illinois						
Code	Date	Quan.	Routing	Car No.	Weight	Inv. No.	Amount

OVERVIEW

Modify existing Williams, White 2000 ton press S/N C-4261 to make it suitable for a hot forging application. The modifications are based on the following requirements:

- *Increase pressing speed to 146 IPM and provide adequate power to develop 2000 tons for 13 inch stroke.
- *Production rate is to be 2 cycles per minute for 35 inch approach stroke and 13 inch power stroke.
- *Inspect, clean, paint (Vista Green), reassemble, test and ship.

MECHANICAL MODIFICATIONS

The rolling bolster and ancillary equipment will be removed and scrapped (except die mounting plate).

Any insulation between the die mounting bolster and the press is presumed to be no good and will be removed and not replaced. Slide and base die mounting bolsters will be modified and shipped mounted in place (shipping regulations permitting).

ELECTRICAL MODIFICATIONS

All existing electrical equipment will be removed and replaced with a complete new electrical system. This includes motors, motor starters, disconnects, control, wiring and conduit.

- Allen Bradley PLC 5/15 with space for future additional I/O chassis. I/O to be 120 volt AC.
- Specter operator interface
- Press modes are off-inch-single.
- Inch using joystick on portable plug-in setup pedestal with two receptacles, zero reference lighted push button and cycle stop push button. Set-up close push button.
- Operator's station on RF housing and to include dual palm buttons, open push button, red fault light and cycle stop push button.
- Floor mounted control panel to be air conditioned and be a NEMA 13 enclosure. Door mounted controls include Specter keypad/display, motor and control push buttons, mode selectors, status lights including amber lights for low oil level warning and pre-bypass of filter.
- Motor control center to be Allen Bradley 2100 Centerline and mounted on top of the press in NEMA 12 enclosure.
- Provide Islatrol active filter for power conditioning.

- Press parameters include:
 - Stroke length
 - Speed transition points
 - Tonnage
- Provide fault sensing as defined in T-W letter dated 10/11/90.
- Provide addresses for TW to monitor with TW's existing data acquisition computer:
 - Slide reversal position (lowest position attained)
 - Maximum hydraulic pressure in pressing speed

HYDRAULIC MODIFICATIONS

The existing pumping unit will be replaced complete including pumps, valves, manifolds and piping.

The existing hydraulic cylinders will be disassembled, inspected and new seals installed. Any repairs necessary to refurbish the cylinders are not included and will be quoted as additional cost items.

- Provide drift circuit
- Provide two sets of pressure switches around filters for pre-bypass warning (amber light) and bypass (fault & shutdown).
- Provide parallel filters with manual valve change over.
(WW design)
- Provide test points as required including filters.
- Provide braze pak water/oil heat exchangers to be used for cooling and hot water heating.
- Provide electronic relief valve.
- TW will use Houghton Cosmolubric HF 122 fluid. WW to test with standard fluid.
- Provide (2) 50GPM-5000PSI auxiliary pump supplies.
- Provide (2) 73GPM-3000PSI auxiliary supplies off (2) of the main press pumps.
- Provide manual valving to allow back-up for main press drive pump.

MISCELLANEOUS

- Furnish three (3) manuals to be available at time of press shipment.
- Furnish five (5) consecutive weekdays of start-up.
- Salvageable components are to be returned to TW with the modified press.
- Reservoir will include oil level/temperature gage, air filter/breather, fill/drain line, cleanout openings, access ladder and catwalk with 4" toe board.
- Electrical will conform to JIC Standards and include all press wiring and hardware for a complete system.
- Hydraulic Piping will be pipe size steel tube and/or JIC steel tubing and will include all pipe, fittings and valves for a complete system.

WILLIAMS, WHITE & CO. PARTS LIST

MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

ORDER NO. C-4261-M2

CUSTOMER TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA

Issue Date 07-31-91

Issued By		TDH		Checked By	Checkout By	RNH	Rev No.	1	Rev Date	Page No.	1 OF 59
Part No.	Item No.	DESCRIPTION									
		PARTS LIST INDEX									
		GENERAL ARRANGEMENT & ASSEMBLY DWG.									
		HYDRAULIC DRAWINGS									
		ELECTRICAL DRAWINGS									
		MAIN PRESS MEMBERS									
		MAIN CYLINDER ASSEMBLY									
		KICKER CYLINDER ASSEMBLY									
		OIL TANK ASSEMBLY									
		SLIDE LOCK ASSEMBLY									
		HYDRAULIC NUT ASSEMBLY									
		TEMPOSONIC ASSEMBLY									
		CATWALK ASSEMBLY									
		CABLE AND HOSE CARRIER									
		LEVEL SWITCH ASSEMBLY									
		LUBRICATION									
		HYDRAULIC COMPONENTS									
		VALVE MANIFOLDS & COMPONENTS									
		ELECTRICAL COMPONENTS									
		SUGGESTED SPARE PARTS LIST									

WILLIAMS, WHITE & CO. PARTS LIST

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Part No.	Item No.	DESCRIPTION				
		GENERAL ARRANGEMENT				
		4914WN				
		FILE #X-2559				
		PIT PLAN				
		4910WN				
		FILE #10135				
		MAIN CYLINDER ASSEMBLY				
		1491WN				
		KICKER CYLINDER ASSEMBLY				
		1492WN				
		GIB & LINER ASSEMBLY				
		1498WN				
		SLIDE LOCK ASSEMBLY				
		1688WN				
		CATWALK ASSEMBLY				
		4907WN				
		FILE #10131				
		SAFETY GATE ASSEMBLY				
		2197WN				
		TEMPOSONIC ASSEMBLY				
		4902WN				
		HYDRAULIC NUT ASSEMBLY				
		B-700-24				
		LEVEL SWITCH ASSEMBLY				
		B-1006-1				
		HYDRAULIC NUT PIPING DIAGRAM				
		B-661-M				
		LUBRICATION DIAGRAM				
		4906WN				
		LEVEL SWITCH ASSEMBLY				
		B-1006-3				
		INSTRUCTION FOLDERS				
		3				
		INSTRUCTIONS				
		I-1185				
M1		NAME PLATE A-6423-1 1 BRASS A-6423				
M2		PRESS NAME PLATE 202NC-4 1 MS 202NC				
M3		WARNING PLATE A-3804-2 2 A-3804				
M4		WARNING PLATE A-6118				
M5		WARNING PLATE A-3892-1 1 A-3892				

WILLIAMS, WHITE & CO. PARTS LIST

2000 TON HSC TYPE, M.D., HYD. PRESS

ORDER NO. C-4261-M2

"TAYLOR-WHARTON CYLINDERS",
HARRISBURG, PA

Issue
Date 07-31-91

[illegible]

SKB43-6/90

WILLIAMS, WHITE & CO. PARTS LIST

2000 TON HSB TYPE, M.D., HYD. PRESS

ORDER NO. C-4261-42

TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA.

Issue
Date 07-31-91

[illegible]

SKB43-6/90

WILLIAMS, WHITE & CO. PARTS LIST

MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

ORDER NO. C-4261-M2

CUSTOMER TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA

Issue Date 07-31-91

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Part No.	Item No.	DESCRIPTION							
		PRESS MEMBERS							
		BASE							
		MODIFICATION 4937WN-1 1 WS 4937WN FILE #X-2580							
		BASE DETAILS 4937WN FILE #X-2580							
		BASE BOLSTER 4972WN-1 1 MS 4972WN FILE #10242							
		{MODIFY EXISTING BASE BOLSTER 1793WN-1}							
		4-SQ. HD. LEVELING SCREWS 2-12 THD. X 6" LG.							
		BASE 4938WN-1 1 WS 4938WN FILE #X-2567							
		{SEE BASE DWG. #1799WN FOR ALL OTHER DIM.}							
M7		TOP PLATEN 4943WN-1 1 WS 4943WN FILE #X-2569							
		{MODIFY}							
		HOUSING 1796WN-1 2 WS 1796WN FILE #X-1875							
		HOUSING DETAILS 1796WN-A							
		HOUSING LINER 1501WN-1 16 1501WN JALLOV							
		TIE ROD							
		{323" LG.} 56KH-31 4 FORG 56KH-A							
		LOCATING COLLAR A-2305-13 4 MS A-2305							
M136		LOCATING COLLAR A-6500-1 4 MS A-6500							
		UPPER TIE ROD							
		NUT {11-1/2"} B-678-18 4 MS B-678							
		HOUSING COVER 1501WN-2 8 MS 1501WN							

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Part No.	Item No.	DESCRIPTION					
		SLIDE	1797WN-1	1	WS	1797WN-A	FILE #X-1876
		SLIDE DETAILS				1797WN-B	
		R.H. GIB	1499WN-2	2	MS	1499WN	
		L.H. GIB	1499WN-1	2	MS	1499WN	
		GIB LINER-INSIDE	1500WN-1	4	1500WN		C GRAPHITE
		GIB LINER-EDGE	1500WN-2	4	1500WN		C GRAPHITE
		GIB SHIM	1500WN-4	8	MS	1500WN	
		GIB BACK UP	1500WN-3	4	MS	1500WN	
		GIB LUB SCREW	A-2051-1	16	BRASS A-2051		
		8-SQ. HD. SET SCREW 1" N.C. X 6" LG.					GIB
		8- SEMI-FIN. HEX JAM NUTS 1" N.C.					GIB
		36-STUDS 1-3/4" N.C. X 10", 2-3/4" STUD THD.,					
		3" NUT THD.					GIB
		36-PLAIN FLAT WASHERS FOR 1-3/4" STUDS					GIB
		36-SECURITY LOCKNUTS #SH 539 1-3/4" N.C.					GIB
		8-HEX HD. CAP SCREWS 1" N.C. X 6" LG.					GIB
		8-PLAIN FLAT WASHERS FOR 1" SCREWS					GIB
		8-HELICAL SPRING LOCKWASHERS FOR 1" SCREW					GIB
		384-FLAT HEAD CAP SCREW 3/8" N.C. X 3/4" LG.					HSG. LINERS
		104-BRASS FLAT HD. CAP SCREW 3/8" N.C. X 3/4" LG.					GIB LINERS
		48-HEX HD. CAP SCREWS 3/8" N.C. X 3/4" LG.					HSG. COVER
		SLIDE BOLSTER	4969WN-1	1	MS	4969WN	FILE #10230
		(MODIFY EXISTING SLIDE BOLSTER 1793WN-1)					

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Part No.	Item No.	DESCRIPTION					
		MAIN CYLINDER ASSEMBLY					
		MAIN CYL.	1494WN-1	2	MS	1494WN	
		MAIN CYL. HEAD	1494WN-2	2	MS	1494WN	TO MAKE MAIN CYL.
		MAIN CYL. BARREL	1494WN-3	2	TUBE	1494WN	TO MAKE MAIN CYL.
		MAIN CYL. FLANGE	1494WN-4	2	MS	1494WN	TO MAKE MAIN CYL.
		MAIN CYL.					
		ADAPTOR	1490WN-1	2	MS	1490WN	
		MAIN CYL. BSHG.	A-2905-1	2	SAE660	A-2905	
		MAIN CYL. GLAND	A-2677-1	2	MS	A-2677	
		MAIN CYL. GLAND					
		BUSHING	A-2904-1	2	SAE660	A-2904	
		WIPER RETAINER	A-2680-1	2	MS	A-2680	
		MAIN PISTON	1489WN-1	2	WS	1489WN	
M133		NEW MAIN PISTON					
		END	3735WN-2	2	MS	3735WN	
M134		MAIN PISTON					
		CONNECTOR	A-6470-1	2	MS	A-6470	
M9		BUTTWELD ANGLE					
		FLANGE	A-4963-6	4	MS	A-4963	
		8-C.R. BRASS DOWEL PIN	1/2" DIA.	X 1-1/4" LG.		CYL. BUSHING	
M10		2 SETS-GARLOCK CHEVRON PACKING	#432-C	CUT OPEN,		W/FILLERS, 261	
		(CUT OPEN) R.H.T.&B.	(18-1/2" I.D.	X 20" O.D.		X 2-13/16"	
		HIGH)					

WILLIAMS, WHITE & CO. PARTS LIST

MACHINE 2000 TON HSB. TYPE, M.D., HYD. PRESS

ORDER NO. C-4261-M2

CUSTOMER TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA

Issue Date 07-31-91

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			RNH	1		3
Part No.	Item No.	DESCRIPTION				
M11		4-GARLOCK KLOZURES #64X4216 (18-1/2" X 20-1/2" X 7/8")				
M12		8-DOUBLE SEAL PISTON RINGS, TYPE INSEAL 25" O.D. X 3/4" WIDE				
M13		4-HYD. "O" RINGS #338-V709-90 (3-1/2" X 3-1/2" X 3/16")				
M14		2-HYD. "O" RINGS #468-V709-90 (19-1/2" X 20" X 1/4")				
M15		4-HYD. "O" RINGS HDT SPLICED #V709-90 (24-1/2" X 25" X 1/4")				
		52-SOC. HD. CAP SCREWS 2" N.C. X 16" LG. MAIN CYL.				
		TORQUE TO 1160 FT./LBS.				
		8-SOC. HD. CAP SCREWS 1" N.C. X 5" LG. ADAPTOR				
		32-GLAND STUDS 1-1/4" N.C. X 7" LG.				
		2" STUD THD. 2-1/4" NUT THD. GLAND				
		32- SEMI-FIN. HEX NUTS 1-1/4" N.C. GLAND				
		16-SOC. HD. CAP SCREWS 1-1/4" N.C. X 7" LG. ANGLE FLANGE				
		48-SOC. HD. CAP SCREWS 1-3/4" N.C. X 5-1/2" LG. PISTON CONN.				
		TORQUE TO 1099 FT./LBS.				
		32-SOC. HD. CAP SCREWS 1-1/4" N.C. X 6" LG. PREFILL VALVE				
		TORQUE TO 1140 FT./LBS.				
		4-SOC. HD. CAP SCREWS 1-1/2" N.C. X 6" LG. MAIN CYL.				
		4- HI-COLLAR LOCKWASHERS FOR 1-1/2" S.H.C.S.				
		16- HI-COLLAR LOCKWASHERS FOR 1-1/4" S.H.C.S.				
		8- HI-COLLAR LOCKWASHERS FOR 1" S.H.C.S.				
M135		48-SOC. HD. CAP SCREWS 1-3/4" N.C. X 9" LG. PISTON CONN.				
		TORQUE TO 1099 FT./LBS.				

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Part No.	Item No.	DESCRIPTION								
		KICKER CYLINDER ASSEMBLY								
M47		KICKER CYL.								
		MODIFICATION 4953WN-1 1 WS 4953WN MODIFY 1496WN-1								
		KICKER CYL. HEAD 1496WN-2 1 MS 1496WN TO MAKE KICKER								
		KICKER CYL.								
		BARREL 1496WN-3 1 TUBE 1496WN TO MAKE KICKER								
		KICKER CYL.								
		FLANGE 1496WN-4 1 MS 1496WN TO MAKE KICKER								
		KICKER CYL. END 1496WN-5 1 MS 1496WN TO MAKE KICKER								
		KICKER CYL.								
		BUSHING A-2909WN-1 1 SAE660 A-2909								
		KICKER CYL.								
		GLAND A-2908-1 1 MS A-2908								
		KICKER CYL.								
		GLAND BUSHING A-2907-1 1 SAE660 A-2907								
		WIPER RETAINER A-2910-1 1 MS A-2910								
		KICKER PISTON 1489WN-2 1 MS 1489WN								
		PISTON SEAL								
		RETAINER A-2685-1 1 MS A-2685								
		KICKER PISTON								
		CONNECTOR A-2906-1 1 MS A-2906								
M16		BUTTWELD FLANGE A-5120-5 1 MS A-5120								
M17		1 SET-GARLOCK CHEVRON PACKING #432-C CUT OPEN W/FILLERS 261								
		R.H.T.&B. CUT OPEN (23-1/2" X 25-1/2" X 3-9/16")								

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Part No.	Item No.	DESCRIPTION					
M18		2-GARLOCK KLOZURES #64X4288 (23-1/2" X 25-1/2" X 7/8"					
M19		4-DOUBLE SEAL PISTON RINGS, TYPE INSEAL 25" O.D. X 3/4" WIDE					
M20		1-CHESTERTON SUPER MONOSEAL #10,000 23" X 25" X 1-1/2"					
		MOLD #60361					
M21		1-HYD. "O" RING #474-V707-90 25" X 25-1/2" X 1/4"					
M22		1-HYD. "O" RING #334-V709-90 2-5/8" X 3" X 3/16"					
		18-SOC. HD. CAP SCREWS 1-1/2" N.C. X 10" LG. KICKER CYL.					
		TORQUE TO 360 FT./LBS.					
		14-GLAND STUDS 1-3/4" N.C. X 8-1/4" LG.					
		2-3/4" STUD THD., 2-3/4" NUT THD. GLAND					
		14- SEMI-FIN. HEX NUTS 1-3/4" LG. GLAND					
		18-SOC. HD. CAP SCREW 1-1/2" N.C. X 3-1/2" LG. SEAL RETAINER					
		TORQUE TO 470 FT./LBS.					
		16-SOC. HD. CAP SCREW 1-1/2" N.C. X 5" LG. PISTON CONN.					
		TORQUE TO 401 FT./LBS.					
		4-SOC. HD. CAP SCREW 1" N.C. X 4" LG. WELD FLANGE					
		4- HI-COLLAR LOCKWASHERS FOR 1" S.H.C.S.					

C-426^{1M-2}
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371	372	373	374	375	376	377	378	379	380
381	382	383	384	385	386	387	388	389	390
391	392	393	394	395	396	397	398	399	400

WILLIAMS, WHITE & CO. PARTS LIST

MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

ORDER NO. C-4261-M2

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Issued By	TDH	Checked By	Checkout By	RNH	Rev No.	1	Rev Date	Page No.	11
Part No.	Item No.	DESCRIPTION							
		OIL TANK ASSEMBLY							
M23		OIL TANK	4898WN-1	1	WS	4898WN	FILE #X-2551		
		OIL TANK DETAILS				4899WN	FILE #10129		
M24		TANK COVERS	A-2945-1	6	MS	A-2945			
		PIPE SEAL							
		INSTALLATION				A-77			
M25		PIPE SEAL COLLAR	A-2069-1	6	MS	A-2069			
M26		PIPE SEAL COLLAR	A-1146-1	2	MS	A-1146			
M27		PREFILL PIPE							
		(10")	1578WN-1	2	WS	1578WN			
M28		OIL TANK BRACKET	4900WN-1	2	WS	4900WN			
M29		OIL TANK PAD	A-6416-1	6	MS	A-6416	50" LG. EACH		
M30		MOTOR PAD	B-1119-30	14	CRS	B-1119			
M31		LIFTING EYE	A-3833-5	4	MS	A-3833	LOCATE @ ASSY.		
M130		MOTOR PAD	B-1119-21	2	CRS	B-1119			
M32		2-AIRMAZE AIR FILTERS	3" NO. C-16227-GN						
M33		8-KEBBY XTRA STURDY SLIM LINE TANK TRAPPER	#607 WITH 1-1/4"						
		PIPE PLUG & 7" ROD EXTENSION							
M34		4-LUBE DEVICES LIQUID LEVEL GAGE	#620-16-A-1-.500						
M35		2-LADISH (OR EQUAL)	10" STD. WEIGHT SHORT RADIUS, 90 DEG. ELBOW						
		PART NO. 946							

WILLIAMS, WHITE & CO. PARTS LIST

MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

ORDER NO. C-4261-M2

CUSTOMER TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA

Issue Date 07-31-91

Issued By	TDH	Checked By		Checkout By		Rev No.		Rev Date		Page No.	
Part No.	Item No.	DESCRIPTION									
M36		6- 1/2" SQUARE FELT 17-1/8" LG. COLLARS									
M37		2- 1/2" SQUARE FELT 11-3/4" LG. COLLARS									
M38		28-HEX HD. CAP SCREW 3/4"-10 N.C. X 2-3/4" LG. 200 HP MOTOR									
M39		192-HEX HD. CAP SCREW 3/8"-16 N.C. X 3/4" LG. TANK COVERS									
M40		36-HEX HD. CAP SCREW 1/2"-13 N.C. X 1-3/4" LG. OIL TANK									
M41		16-HEX HD. CAP SCREW 1"-8 N.C. X 2-1/2" LG. BRACKET									
M42		8-SOC. SET SCREW 3/8"-16 N.C. X 1/2" LG. COLLAR									
M127		4-HEX HD. CAP SCREWS 5/8"-11 N.C. X 2-1/4" LG. 60 HP MOTOR									
M43		64-HEX HD. CAP SCREW 5/8"-11 N.C. X 1-3/4" LG. MOTOR/ADAPTOR									
M44		12-HEX HD. CAP SCREW 1"-8 N.C. X 2-1/2" LG. PUMP/ADAPTOR									
M45		4-HEX HD. CAP SCREW 3/4"-10 N.C. X 2" LG. PUMP/ADAPTOR									
M46		16-HELICAL SPRING LOCKWASHER FOR 1" SCREW									
M48		32-HELICAL SPRING LOCKWASHER FOR 3/4" SCREW									
M50		68-HELICAL SPRING LOCKWASHER FOR 5/8" SCREW									
M51		36-HELICAL SPRING LOCKWASHER FOR 1/2" SCREW									

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MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

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					1		13
Part No.	Item No.	DESCRIPTION					
M53		1-BSF PUMP/MOTOR ADAPTOR OF STEEL, CONSTRUCTION FOR USE WITH					
		GENERAL ELECTRIC MOTOR, 60 H.P., 1800 R.P.M., SINGLE SHORT					
		SHAFT, TEFC, FRAME SIZE 364TSC, AND IMD DELAVAL CIG DOUBLE					
		PUMP NO. CIG-82200/82200-RIP AND FALK MOTOR COUPLING 1070T10					
		WITH HORIZONTAL SPLIT COVER MODEL NO. 12-8802-346-X-8.5					
M54		5-BSF PUMP/MOTOR ADAPTOR OF STEEL CONSTRUCTION FOR USE WITH					
		GENERAL ELECTRIC MOTOR, 200 H.P., 1800 R.P.M., SINGLE SHORT					
		SHAFT, TEFC, FRAME SIZE 445TSC AND IMD DELAVAL CIG DOUBLE					
		PUMP NO. CIG-83250/83160-RIP AND FALK MOTOR COUPLING 1070T10					
		WITH HORIZONTAL SPLIT COVER MODEL NO. 8802-356-X-9.5					
M128		2-BSF PUMP/MOTOR ADAPTOR OF STEEL CONSTRUCTION FOR USE WITH					
		GENERAL ELECTRIC MOTOR 200 H.P., 1800 R.P.M., SINGLE SHORT					
		SHAFT, TEFC, FRAME SIZE 445TSC AND IMD DELAVAL CIG PUMP NO.					
		CIG-64125-RIP, AND FALK MOTOR COUPLING 1070T10 WITH					
		HORIZONTAL SPLIT COVER MODEL NO. 8602-356-X-8.5					
M55		1-FALK TAPERED GRID STEEL COUPLING #1070T10 WITH CLEARANCE FIT					
		AND SET SCREW W/HORIZONTAL SPLIT COVER					
		BORE ONE HALF 1-7/8" WITH 1/2" X 1/4" KEYWAY					
		BORE ON HALF 65mm WITH 18mm DIN. KEYWAY					
M56		5-FALK TAPERED GRID STEEL COUPLING #1070T10 WITH CLEARANCE FIT					
		& SET SCREW W/HORIZONTAL SPLIT COVER					
		BORE ONE HALF 2-3/8" WITH 5/8" X 5/16" KEYWAY					
		BORE ONE HALF 65mm WITH 18mm DIN. KEYWAY					

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MACHINE 2000 TON HSG. TYPE, M.D.; HYD. PRESS

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MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

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					1		15
Part No.	Item No.	DESCRIPTION					
		SLIDE LOCK ASSEMBLY					
		SLIDE LOCK ASSY.					1685WN
		SLIDE LOCK BAR 1502WN-3					2 MS 1502WN
		SLIDE LOCK					
		BASE PLATE 1685WN-1					2 MS 1685WN
		SLIDE LOCK					
		FACE PLATE 1685WN-2					2 MS 1685WN
		SLIDE LOCK CAM					
		(LOWER) 864WN-2					2 MS 864WN
		SLIDE LOCK CAM					
		(UPPER) 864WN-6					2 MS 864WN
		SLIDE LOCK PIN 864WN-3					4 MS 864WN
		SLIDE LOCK					
		PIVOT PIN 864WN-1					4 CRS 864WN
		SLIDE LOCK CYL. 867WN-2					2 PUR 1685WN
		(MILWAUKEE CYLINDER CO. DWG. C-2816)					
		SLIDE LOCK					
		CONNECTING ROD 864WN-4					4 MS 864WN
		SLIDE LOCK					
		STOP BLOCK 864WN-5					2 CRS 864WN
		BEARING A-6642 4 A-6692					
		4-OILITE SLEEVE BEARING #AA-3005 (2-1/2" I.D. X 3" O.D. X 4")					
		4-MILWAUKEE ROD EYES PART NO. C-301					

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ORDER NO. C-4261-M2

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Part No.	Item No.	DESCRIPTION							
		12-SOC. HD. CAP SCREW 3/4" N.C. X 2-3/4" LG. LOCK BAR							
		12- HI-COLLAR LOCKWASHERS FOR 3/4" S.H.C.S. LOCK BAR							
		8-SOC. HD. CAP SCREW 1/2" N.C. X 1-1/4" LG. STOP BLOCK							
		8-SOC. HD. CAP SCREW 3/8" N.C. X 1-1/4" LG. CYL.							
		8-SOC. HD. CAP SCREW 3/4" N.C. X 3" LG. BASE PLATE							
		12-SOC. HD. CAP SCREW 3/4" N.C. X 3" LG. FACE PLATE							
		8-SOC. SET SCREW 3/8" N.C. X 1" LG. PIVOT PIN							
		8-DOWEL PINS W/HEADS 1-1/4" DIA. X 3" LG. BASE PLATE							
		8- HI-COLLAR LOCKWASHERS FOR 1/2" S.H.C.S.							
		8- HI-COLLAR LOCKWASHERS FOR 3/8" S.H.C.S.							
		20- HI-COLLAR LOCKWASHERS FOR 3/4" S.H.C.S.							
		4-AEROQUIP HOSE ASSEMBLY #FA3477HHH0180							
		4-MICROSWITCH LIMIT SWITCH #LSA3K-1A							
		HYDRAULIC NUT ASSEMBLY							
		HYD. NUT ASSY. B-700-24							
		HYD. NUT B-696-24 4 SAE1045 B-696							
		LOAD SHIM B-698-29 4 MS B-698-B .429 THICK							
		PISTON RING B-697-24 4 MS B-697							
		SET UP SHIM B-699-4 8 MS B-699							
		8-HEX HD. CAP SCREW 1/2" N.C. X 1-1/2" LG. SET UP SHIM							
		4-HYD. "O" RING #456-V709-90 (13-1/2" X 14" X 1/4")							
		4-PARKER PARBAK BACK-UP RING #8-456-N300-9							
		4-HYD. "O" RING #468-V709-90 (19-1/2" X 20" X 1/4")							

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MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

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Part No.	Item No.	DESCRIPTION					
		4-PARKER PAREAK BACK-UP RING #8-468-N-300-9					
		1-ENERPAC HYDRAULIC HAND PUMP #P-80 FOR 10,000 P.S.I.					
		1-ENERPAC SAFETY CHECK VALVE #V-17					
		2-ENERPAC GAGE ADAPTOR #GA-1					
		1-ENERPAC HEX NIPPLE 3/8" #FZ1617					
		1-ENERPAC REDUCER CONNECTOR #FZ-1055					
		1-MARSH 1/2" NEEDLE VALVE #N1574					
		1-MARSH HYDRAULIC 3-1/2" PRESSURE GAGE #H0290 0-10,000 GRAD.,					
		1/4" N.P.T., BOTTOM CONNECTION					
		1-ANCHOR HIGH PRESSURE SUPER SPIRAL WRAP HOSE ASSEMBLY					
		#456-4MS-36"					
		2-ENERPAC REDUCER BUSHING #FZ-1630 3/8" TO 1/4"					
		1-VOGT REDUCER BUSHING SERIES #2400-FSM 1/2" TO 1/4"					
		NOTE: ALL THE ABOVE ITEMS MUST BE GOOD FOR 10,000 P.S.I.					
		PRESSURE					
		TEMPOSONIC ASSEMBLY					
		TEMPOSONIC ASSY. 4902WN					
M60		SLIDE PULLING					
		ARM A-5800-1 1 CRS A-5800					
M61		SLIDE SPACER A-6421-1 1 MS A-6421					
M62		MOUNTING TUBE 4903WN-1 1 WS 4903WN					
M63		MOUNTING PLATE A-4949-1 2 CRS A-4949 WELD TO HSG. @ ASSY.					

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MACHINE 2000 TON HSB. TYPE, M.D., HYD. PRESS

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Part No.	Item No.	DESCRIPTION					
M64		MAGNET PULLING					
		ARM	3600WN-1	1	WS	3600WN	
M65		SPACER	A-5131-1	1	ALUM	A-5131	
M66		1-BOSTON GEAR #HM-6 ROD END BEARING (MALE)					
M67		1-BOSTON GEAR #HF-6 ROD END BEARING (FEMALE)					
M68		2-SIEWEK SOC. HD. SHOULDER SCREW #10482 X 1/2", 3/8" BODY DIA. X 1/2" LG. (5/16" N.C.)					
M69		2-SIEWEK SOC. HD. SHOULDER SCREW #10483 X 3/4", 1/2" BODY DIA. X 3/4" LG. (3/8" N.C.)					
		REF-TEMPOSONIC LINEAR DISPLACEMENT TRANSDUCER					
M70		4-ROUND HD. SLOTTED 18-8 STAINLESS STEEL MACH. SCREW #6-32 X 5/8" LG. MAGNET					
M71		8-HEX HD. CAP SCREW 1/2" N.C. X 1-1/2" LG. MTG. TUBE					
M72		8-HELICAL SPRING LOCKWASHERS FOR 1/2" SCREW					
M73		2-HEX HD. CAP SCREW 3/8" N.C. X 1-1/4" LG. SLIDE PULLING ARM					
M74		2-HELICAL SPRING LOCKWASHERS FOR 3/8" SCREW					
M75		2-FLAT POINT SOC. SET SCREW					
		1/4" N.C. X 3/4" LG. MAGNET PULLING ARM					

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MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

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Part No.	Item No.	DESCRIPTION					
		CATWALK ASSEMBLY					
		CATWALK ASSY.				4907WN	
M76		REAR CATWALK	4933WN-1	1	WS	4933WN	
M77		CATWALK BRACKET	4934WN-1	2	WS	4934WN	
M78		SUPPORT BEAM	4935WN-1	1	CHANNEL	4935WN	
M79		OIL TANK LADDER	1138WN-25	1	WS	1138WN	
M80		LADDER	1327WN-78	1	WS	1327WN	
M81		SAFETY GATE	2197WN-1	1	WS	2197WN	
M125		OIL TANK LADDER					
		PAD	4935WN-2	1	CRS	4935WN	
M126		CATWALK LADDER					
		PAD	4935WN-3	1	CRS	4935WN	
M82		9-WAGNER #100 ECONOMY TEE FOR 1-1/4" PIPE					
M83		6-WAGNER #105 ELBOW FOR 1-1/4" PIPE					
M84		9-WAGNER #110 CROSS FOR 1-1/4" PIPE					
M85		5-WAGNER #115 SIDE OUTLET TEE FOR 1-1/4" PIPE					
M86		5-WAGNER #115P SIDE OUTLET ELBOW FOR 1-1/4" PIPE					
M87		20-MECHANICAL STEEL TUBING 2" O.D. X 1.688 I.D. X 4-1/2" LG.					
M88		2-MECHANICAL STEEL TUBING 2" O.D. X 1.688 I.D. X 4" LG.					
M89		4- 1-1/4" STANDARD PIPE X 25-1/8" LG.					
M90		12- 1-1/4" STANDARD PIPE X 41-3/16" LG.					UPRIGHT
M91		5- 1-1/4" STANDARD PIPE X 43-1/8" LG.					UPRIGHT
M92		2- 1-1/4" STANDARD PIPE X 52-1/8" LG.					

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Part No.	Item No.	DESCRIPTION							
M93		2-	1-1/4"	STANDARD PIPE X 56-3/8" LG.					
M94		2-	1-1/4"	STANDARD PIPE X 89-13/16" LG.					UPRIGHT
M95		1-	1-1/4"	STANDARD PIPE X 76-3/8" LG.					
M96		3-	1-1/4"	STANDARD PIPE X 77-3/8" LG.					
M97		6-	1-1/4"	STANDARD PIPE X 78-3/8" LG.					
M98		4-	1-1/4"	STANDARD PIPE X 79-3/8" LG.					
M99		2-	1-1/4"	STANDARD PIPE X 158-3/8" LG.					
M100		2-	1-1/4"	STANDARD PIPE X 161-3/16" LG.					
M101		1-	1-1/4"	STANDARD PIPE X 234-3/8" LG.					
M102		1-	1-1/4"	STANDARD PIPE X 237-3/8" LG.					
M103		103 FT. OF	1/8" X 4"	M.S. KICKPLATE					CUT TO SUIT
M104		2-WAGNER #100	ECONOMY TEE FOR	1-1/4" PIPE					SAFETY GATE
M105		4-WAGNER #105	ELBOW FOR	1-1/4" PIPE					SAFETY GATE
M106		3-	1-1/4"	STANDARD PIPE X 20-1/8" LG.					SAFETY GATE
M107		2-	1-1/4"	STANDARD PIPE X 39-1/8" LG.					SAFETY GATE
M108		8-HEX HD. CAP	SCREWS 1-1/4"-7	N.C. X 3-1/4" LG.					BRACKET
M109		4-HEX HD. CAP	SCREW 1/2"-13	N.C. X 2-1/4" LG.					CATWALK
M110		4-	SEMI-FIN. HEX	NUTS 1/2" N.C.					CATWALK
M111		4-BEVEL	WASHERS FOR	1/2" SCREWS					CATWALK
M112		4-HEX HD. CAP	SCREWS 1/2"-13	N.C. X 1-3/4" LG.					SUPPORT BEAM
M113		6-HEX HD. CAP	SCREW 1/2"-13	N.C. X 1-1/2" LG.					LADDERS
M114		8-HELICAL	SPRING LOCKWASHERS FOR	1-1/4" SCREW					
M115		14-HELICAL	SPRING LOCKWASHERS FOR	1/2" SCREW					

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MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

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Part No.	Item No.	DESCRIPTION							
		HOSE CARRIERS							
		HOSE CARRIER							
		SLIDE BRACKET 1507WN-2 2 WS 1507WN							
		HOSE CARRIER							
		HSG. BRACKET 1507WN-1 2 WS 1507WN							
		2-CORTITE MODEL #L275 GORTAC CABLE AND HOSE CARRIER SYSTEM TO							
		BE 98" IN TOTAL LENGTH FOR MAX. TOTAL TRAVEL OF 76". SYSTEM							
		FOR VERTICAL APPLICATION CARRIER WIDTH TO BE 20" FOR 2-1/4"							
		O.D. HOSE W/PARALLEL BARS FOR SEPARATORS.							
		16-HEX HD. CAP SCREWS 3/8" N.C. X 1" LG. CARRIER							
		16-HEX HD. CAP SCREWS 1/2" N.C. X 1-3/4" LG. BRACKETS							
		16-HELICAL SPRING LOCKWASHERS FOR 3/8" SCREW							
		16-HELICAL SPRING LOCKWASHERS FOR 1/2" SCREW							
		LEVEL SWITCH ASSEMBLY							
		LEVEL SWITCH ASSY. B-1006-1							
		LEVEL SWITCH ASSY. B-1006-3							
M116		2-VOGT 2" HEX HD. PIPE PLUG SERIES #2580							
M117		2-GEMS SINGLE STATION LEVEL SWITCH #26717, 115 VOLT, 60 HZ.							
M118		1- 1/4" STANDARD PIPE 15-1/8" LG.							
M119		2-VOGT 1/4" STEEL COUPLING SERIES NO. 2324							

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MACHINE 200Z TUN HSG TYPE, M.D., HYD. PRESS

ORDER NO. C-4261-142

CUSTOMER TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA

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Part No.	Item No.	DESCRIPTION							
		ITEM NUMBERS REFER TO DWG. #4947WN-001A, FILE #10171							
H1	A1	1-1MD DELAVAL CRESCENT INTERNAL GEAR PUMP							
		#CIG-82200/82200-R-I-P							
H2		1-MAIN SAE SOC. WELD FLANGE #WSAEP-32-20 W/MTG. KIT #MK510							
		REF-W.W. & CO. 1-1/2" BUTTWELD FLANGE #B-1315-1							
H3	A2	2-WORCESTER 2" MISER BALL VALVE #2D446TSEV2							
H133		6-REXROTH BUTTWELD WELDBOSS #810-743							
H4	A3	2-VICKERS MODULAR CONTROLS SHUTTLE VALVE #DSV1-8-B-6T							
H5	A4	1-SUN LINE MOUNTED RELIEF VALVE #RPKC-LDV-LER							
H6		2-MAIN SAE BUTTWELD FLANGE #BWSAEP-12-20L, W/MTG. KIT #MK1547							
H7		1-MAIN SAE STRAIGHT THREADED FLANGE #TSAET-12-20, W/MTG. KIT #MK1547							
		#MK1547							
H8	A5	4-ITT STANDARD PLATE SEAL HEAT EXCHANGER #BP320-60							
H9		8-REXROTH BUTTWELD WELDBOSS #810-743							
H10	A6	4-SCHROEDER IN-TANK FILTER #BFT-1BBS3-SS-Y2							
		(REPLACEMENT ELEMENTS #BBS3)							
H11		4-REXROTH BUTTWELD WELD BOSS #810-743							
H12	A7	4-SKINNER 2-WAY VALVE #703N15N1C							
H13		4-CANFIELD 43650 DIN CONNECTOR #5107-11000, WITH 1/2" CONDUIT							
		CONNECTION AND LIGHT FOR 120 VAC							
H14	A8	2-STERLCO 2" STRAINER #20-Y							
H15	A9	1-BARKSDALE PRESSURE SWITCH #E1H-H90-F2							
H16	A10	4-BARKSDALE PRESSURE SWITCH #E1H-H90							
H17	A11	2-PARKER CHECK VALVE #C-3200-S-65							

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MACHINE 2000 TON HSB. TYPE, M.D., HYD. PRESS

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Part No.		DESCRIPTION										
H134		2-REXROTH BUTTWELD WELDBOSS #810-743										
H18		A12	3-PARKER DIAGNOSTIC NIPPLES, PD SERIES									
H19		A13	1-PARKER CHECK VALVE #VC-L-20-F-05									
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CUSTOMER TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA

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Part No.	Item No.	DESCRIPTION								
		ITEM NUMBERS REFER TO DWG. #4947WN-001B, FILE #10172								
H20	B1	1-1MD DELAVAL CRESCENT INTERNAL GEAR PUMP								
		#CIG-83250/83160-R-I-P								
H21		2-MAIN SAE BUTTWELD FLANGE #BWSAEP-16-20L, W/MTG. KIT #MK582								
H22		1-MAIN SAE SOC. WELD FLANGE #WSAEP-32-20, W/MTG. KIT #MK510								
H23		1-SCHEDULE 40 LONG RADIUS 4" 90 DEG. ELBOW								
H24	B2	2-1MD DELAVAL CRESCENT INTERNAL GEAR PUMP #CIG-64125-R-I-P								
H25		2-1MD DELAVAL SAE 1-1/2" SOC. WELD FLANGE ADAPTOR #Q64027X1								
H26		2-MAIN SAE SOC. WELD FLANGE #WSAEP-20-20, W/MTG. KIT #MK507								
H27	B3	1-REXROTH CARTRIDGE INSERT #LC50B05E6X								
H28	B4	2-REXROTH CARTRIDGE INSERT #LC32B20D6X								
H29	B5	1-REXROTH CARTRIDGE INSERT #LC32B05E6X								
H30	B6	3-REXROTH CARTRIDGE INSERT #LC25B05E6X								
H31	B7	1-REXROTH CARTRIDGE COVER #LFA50D6X/F/12								
H32	B8	2-REXROTH CARTRIDGE COVER #LFA32H26X/FX08/12								
H33	B9	1-REXROTH CARTRIDGE COVER #LFA32D6X/F/12								
H34	B10	3-REXROTH CARTRIDGE COVER #LFA25D6X/F/12								
H35	B11	1-REXROTH 2" BALL VALVE #CC2PU-A21-29SL								
H36		2-MAIN SAE SPLIT FLANGE #MF-16-20 W/MTG. KIT #MK2737								
H37		1-MAIN SAE COMPANION BUTTWELD FLANGE #BWCSAEP-16-20L								
H38		1-MAIN SAE BLIND COMPANION FLANGE #WCSAEP-16-20S-00								
H39	B12	1-REXROTH 2" BALL VALVE #DD2PU-A21-29SL								
H40		2-MAIN SAE SPLIT FLANGE #MK-16-60 W/MTG. KIT #MK2743								
H41		1-MAIN SAE COMPANION BUTTWELD FLANGE #BWCSAEP-16-60H								

WILLIAMS, WHITE & CO. PARTS LIST

MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

ORDER NO. C-4261-M2

CUSTOMER TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA

Issue Date 07-31-91

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H42		1-MAIN SAE BLIND COMPANION FLANGE #WCSAEP-16-60S-00							
H43	B13	1-VICKERS CARTRIDGE RELIEF INSERT #CVI-25-D10-2-H-10							
H44	B14	1-VICKERS CARTRIDGE RELIEF COVER #CVCS-25-C-S2-W-350-10							
H45	B15	1-VICKERS PROPORTIONAL THROTTLE VALVE #CVU-40-EFP1-B29-85-31							
H46	B16	2-VICKERS 4-WAY VALVE #DEES-8-6A-T-M-U-B-20							
H47		12- 1/2"-13 NC X 6" LG. SOCKET HD. CAP SCREWS							
		TORQUE TO 60 FT./LBS.							
H48		2-CANFIELD 43650 DIN CONNECTOR #5107-11000 WITH 1/2" CONDUIT							
		CONNECTION AND LIGHT FOR 120 VAC							
H49	B17	2-VICKERS 4-WAY VALVE #DG4V-3-2A-M-U-B-40							
H50		2-CANFIELD 43650 DIN CONNECTOR #5107-11000 WITH 1/2" CONDUIT							
		CONNECTION AND LIGHT FOR 120 VAC							
H51	B18	2-VICKERS MODULAR CONTROLS SHUTTLE VALVE #DSV1-16-B-12T							
H52	B19	2-OILGEAR D08 FLOW CONTROL MODULE #08-45-/P-05/T-00/M-AB-X-C							
	B20*	REF-OILGEAR 8" CENTER-FLO PREFILL VALVE #VSAFNN-S3N-64							
H53	B21	10-PARKER DIAGNOSTIC NIPPLES, PD SERIES							
	B22*	REF-PARKER CHECK VALVE #VC-L-8-P-05 (.040 ORIFICE)							
H54	B23	1-DAMAN D08 2-STATION BAR MAINFOLD #A-D08-P-02-7-S							
	B24*	REF-W.W. & CO. SLIDE LOCK ASSEMBLY							
	B25*	REF-W.W. & CO. KICKER CYLINDER ASSEMBLY							
	B26*	REF-W.W. & CO. MAIN CYLINDER ASSEMBLY							
	B27	REF-W.W. & CO. PRESS CONTROL MANIFOLD							
	B28	REF-W.W. & CO. DRIVE PUMP CONTROL MANIFOLD #4956WN							
	B29	REF-W.W. & CO. AUX. PUMP CONTROL MANIFOLD #4957WN							
	B30	REF-W.W. & CO. TANK LINE MANIFOLD #4955WN							

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MACHINE 2200 TON HSE TYPE, M.D., HYD. PRESS

ORDER NO. C-4261-M2

CUSTOMER TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA

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SKB43-6/90

WILLIAMS, WHITE & CO. PARTS LIST

MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

ORDER NO. C-4261-M2

CUSTOMER TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA

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Part No.	Item No.	DESCRIPTION							
		ITEM NUMBERS REFER TO DWG. #4947WN-001C, FILE #10173							
H55	C1	2-IMO DELAVAL CRESCENT INTERNAL GEAR PUMP							
		#CIG-83250/23160-R-I-P							
H56		4-MAIN SAE BUTTWELD FLANGE #BWSAEP-16-20L W/MTG. KIT #MK582							
H57		2-MAIN SAE SOC. WELD FLANGE #WSAEP-32-20 W/MTG. KIT #MK510							
H58		2-SCHEDULE 40 LONG RADIUS 4" 90 DEG. ELBOW							
H59	C2	2-REXROTH CARTRIDGE INSERT #LC40B20D6X							
H60	C3	4-REXROTH CARTRIDGE INSERT #LC40B05E6X							
H61	C4	2-REXROTH CARTRIDGE INSERT #LC32B05E6X							
H62	C5	2-REXROTH CARTRIDGE INSERT #LC25B05E6X							
H63	C6	2-REXROTH CARTRIDGE COVER #LFA40H26X/FX10/12							
H64	C7	2-REXROTH CARTRIDGE COVER #LFA40H26X/F/12							
H65	C8	2-REXROTH CARTRIDGE COVER #LFA40D6X/F/12							
H66	C9	2-REXROTH CARTRIDGE COVER #LFA32D6X/F/12							
H67	C10	2-REXROTH CARTRIDGE COVER #LFA25D6X/F/12							
H68	C11	2-VICKERS CARTRIDGE RELIEF INSERT #CVI-32-D10-2-H-10							
H69	C12	2-VICKERS CARTRIDGE RELIEF COVER #CVCS-32-C-S2-W-245-10							
H70	C13	2-VICKERS 4-WAY VALVE #DG4V-3-2A-M-U-B-40							
H71		2-CANFIELD 43650 DIN CONNECTOR #5107-11000 WITH 1/2" CONDUIT							
		CONNECTION AND LIGHT FOR 120 VAC							
H72	C14	6-PARKER DIAGNOSTIC NIPPLES, PD SERIES							
C15		REF-W.W. & CO. ASSIST PUMP GROUP #1 & #2 CONTROL MANIFOLD #4958WN							

WILLIAMS, WHITE & CO. PARTS LIST

MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

ORDER NO. C-4261-M2

CUSTOMER TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA

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Part No.	Item No.	DESCRIPTION							
		ITEM NUMBERS REFER TO DWG. #4947WN-001D, FILE #10174							
H73	D1	2-IMD DELAVAL CRESCENT INTERNAL GEAR PUMP							
		#CIG-83250/63160-R-I-P							
H74		4-MAIN SAE BUTTWELD FLANGE #BWSAEP-16-20L W/MTG. KIT #MK582							
H75		2-MAIN SAE SOC. WELD FLANGE #WSAEP-32-20 W/MTG. KIT #MK510							
H76		2-SCHEDULE 40 LONG RADIUS 4" 90 DEG. ELBOW							
H77	D2	3-REXROTH CARTRIDGE INSERT #LC40B20D6X							
H78	D3	2-REXROTH CARTRIDGE INSERT #LC40B05E6X							
H79	D4	2-REXROTH CARTRIDGE INSERT #LC32B20D6X							
H80	D5	2-REXROTH CARTRIDGE INSERT #LC32B05E6X							
H81	D6	2-REXROTH CARTRIDGE INSERT #LC25B05E6X							
H82	D7	1-REXROTH CARTRIDGE COVER #LFA40KWA6X/12							
H83	D8	2-REXROTH CARTRIDGE COVER #LFA40H26X/FX10/12							
H84	D9	2-REXROTH CARTRIDGE COVER #LFA40D6X/F/12							
H85	D10	2-REXROTH CARTRIDGE COVER #LFA32KWB6X/12							
H86	D11	2-REXROTH CARTRIDGE COVER #LFA32D6X/F/12							
H87	D12	2-REXROTH CARTRIDGE COVER #LFA25D6X/F/12							
H88	D13	1-VICKERS CARTRIDGE RELIEF INSERT #CVI-32-D10-2-H-10							
H89	D14	2-VICKERS CARTRIDGE RELIEF INSERT #CVI-25-D10-2-H-10							
H90	D15	1-VICKERS CARTRIDGE RELIEF COVER #CVCS-32-C1-S2-W-245-10							
H91	D16	2-VICKERS CARTRIDGE RELIEF COVER #CVCS-25-C-S2-W-245-10							
H92	D17	1-VICKERS CARTRIDGE RELIEF VALVE MODULE #CVGC-3-W-250-10							
H93	D18	5-VICKERS 4-WAY VALVE #DG4V-3-2A-M-J-B-40							

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2000 TON HS, TYPE, M.D., HYD, PRESS

ORDER NO. C-4261-12

TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA.

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MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

ORDER NO. C-4261-M2

CUSTOMER TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA

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RAL					1		32
Part No.	Item No.	DESCRIPTION					
		ITEM NUMBERS REFER TO DWG. #4947WN-001E, FILE #10175					
H98	E1	2-REXROTH CARTRIDGE INSERT #LC80A05E5X					
H99	E2	2-REXROTH CARTRIDGE INSERT #LC40B20D6X					
H100	E3	1-REXROTH CARTRIDGE INSERT #LC40B40E6X					
H101	E4	4-REXROTH CARTRIDGE INSERT #LC40B20E6X					
H102	E5	2-REXROTH CARTRIDGE INSERT #LC40B05E6X					
H103	E6	1-REXROTH CARTRIDGE INSERT #LC16B05E6X					
H104	E7	1-REXROTH CARTRIDGE INSERT #LC16A10D6X					
H105	E8	2-REXROTH CARTRIDGE COVER #LFA80GWA5X/12					
H106	E9	1-REXROTH CARTRIDGE COVER #LFA40KWB6X/12					
H107	E10	1-REXROTH CARTRIDGE COVER #LFA40KWA6X/12					
H108	E11	1-REXROTH CARTRIDGE COVER #LFA40WEB6X/B12/12					
H109	E12	1-REXROTH CARTRIDGE COVER #LFA40WEA6X/A15P10/12					
H110	E13	1-REXROTH CARTRIDGE COVER #LFA40WEA6X/A12/12					
H111	E14	1-REXROTH CARTRIDGE COVER #LFA40H26X/FX10/12					
H112	E15	3-REXROTH CARTRIDGE COVER #LFA40D6X/F/12					
H113	E16	1-REXROTH CARTRIDGE COVER #LFA16D6X/F/12					
H114	E17	1-REXROTH CARTRIDGE COVER #LFA16H26X/FX06/12					
H115	E18	2-VICKERS CARTRIDGE RELIEF INSERT #CVI-40-D10-2-H-10					
H116	E19	2-VICKERS CARTRIDGE RELIEF COVER #CVCS-40-C1-S2-W-245-10					
H117	E20	1-VICKERS PROPORTIONAL RELIEF VALVE #EHST-3-FVF-11					
H118	E21	1-VICKERS CARTRIDGE RELIEF MODULE #CVGC-3-W-250-10					
H119	E22	1-VICKERS D03 RELIEF MODULE #DGMG-3-PT-CW-40					
H120	E23	6-VICKERS 4-WAY VALVE #DG4V-3-2A-M-U-B-40					

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MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

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Part No.	Item No.	DESCRIPTION					
H121		6-CANFIELD 43650 DIN CONNECTOR #5107-11000 WITH 1/2" CONDUIT					
		CONNECTION AND LIGHT FOR 120 VAC					
H122	E24	2-VICKERS 4-WAY VALVE #DG4B4-012A-U-B-50					
H123		2-CANFIELD 43650 DIN CONNECTOR #5107-11000 WITH 1/2" CONDUIT					
		CONNECTION AND LIGHT FOR 120 VAC					
H124	E25	1-VICKERS 4-WAY VALVE #DG4V-3-2A-MS-U-B-40					
H125		1-CANFIELD 43650 DIN CONNECTOR #5107-11000 WITH 1/2" CONDUIT					
		CONNECTION AND LIGHT FOR 120 VAC					
H126	E26	1-MARSH NEEDLE VALVE #N-1514					
H127	E27	1-ASHCROFT GAGE SAVER #1/2-1106-B					
H128	E28	1-ASHCROFT 6" 0-5000 PSI GAGE #60-1009-R-04L-0/5000, FLANGE					
		MOUNTED, 1/2" BOTTOM CONNECTION					
H129		1-W.W. & CO. SPECIAL 6" GAGE FACE FOR 2000 TONS AT 2716 PSI,					
		2000 TONS AND 5000 PSI MAXIMUM GRADUATIONS					
H130	E29	1-ALMO D03 ACCESS PLATE #AMT-D03-ACP-S					
H131	E30	5-PARKER DIAGNOSTIC NIPPLES, PD SERIES					
H132	E31	2-FLUID CONTROLS CARTRIDGE CHECK VALVE #3C400-SSV					
	E32	REF-PRESSURE TRANSDUCER					
	E33	REF-W.W. & CO. ORIFICE SET SCREW					
	E34	REF-W.W. & CO. RELIEF VALVE ADAPTOR #B-1301-1					
	E35	REF-W.W. & CO. "P-A" RELIEF VALVE COVER #B-1291-1					
	E36	REF-W.W. & CO. PRESS CONTROL MANIFOLD #4963WN					
	E37	REF-W.W. & CO. SET-UP CLOSE MANIFOLD #4960WN					

WILLIAMS, WHITE & CO. PARTS LIST

MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

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CUSTOMER TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA

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	H135										
	H136										
	H137										
	H138										
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	H141										
	H142										
	H143										
	H144										
	H145										
	H146										
	H147										

WILLIAMS, WHITE & CO. PARTS LIST

MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

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Part No.	Item No.	DESCRIPTION					
H148		16- 1"-8 NC X 4" LG. SOC. HD. CAP SCREWS E8A & B					
H149		32- 3/4"-10 NC X 2-3/4" LG. SOC. HD. CAP SCREWS E9,E10,E11,E12,					
		E13 & E15A,B,C					
H150		8- 3/4"-10 NC X 2-1/4" LG. SOC. HD. CAP SCREWS E19A & B					
H151		4- 3/4"-10 NC X 3-1/2" LG. SOC. HD. CAP SCREWS E14					
H152		4- 5/16"-18 NC X 1-1/2" LG. SOC. HD. CAP SCREWS E16					
H153		8- 1/4"-20 NC X 1-1/2" LG. SOC. HD. CAP SCREWS E24A & B					
H154		4-#10-24 NC X 3-3/4" LG. SOC. HD. CAP SCREWS E23C					
H155		4-#10-24 NC X 3-5/8" LG. SOC. HD. CAP SCREWS E23A					
H156		16-#10-24 NC X 2" LG. SOC. HD. CAP SCREWS E23B,D,E,F					
H157		4-#10-24 NC X 1-5/8" LG. SOC. HD. CAP SCREWS E20					
H158		10- 1-1/2"-6 NC X 16" LG. SOC. HD. CAP SCREWS MANIFOLD					
H159		4-#10-24 NC X 4" LG. SOC. HD. CAP SCREWS E35					
		NOTE: TORQUE BOLTS ON ITEMS E8A & B TO 665 FT./LBS.					
		TORQUE BOLTS ON ITEMS E9, E10, E11, E12, E13, E14, E15A, B					
		& C TO 385 FT./LBS.					
		TORQUE BOLTS ON ITEMS E19A & B TO 370 FT./LBS.					
		TORQUE BOLTS ON ITEM E16 TO 25 FT./LBS.					
		TORQUE BOLTS ON ITEM E20 TO 70-80 IN./LBS.					
		TORQUE BOLTS ON ITEMS E24A & B TO 112 IN./LBS.					
		TORQUE BOLTS ON ITEM E23A-F & E35 TO 40-53 IN./LBS.					
		TORQUE 1-1/2-6 NC BOLTS ON MANIFOLD TO 1100 FT./LBS.					

WILLIAMS, WHITE & CO. PARTS LIST

MACHINE 2000 TON HSB. TYPE, M.D., HYD. PRESS

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CUSTOMER TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA

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Part No.	Item No.	DESCRIPTION								
H160		BLIND FLANGE A-5855-1 2 MS A-5855								
H161		2-HYD. "O" RINGS #242-V709-90 (4" X 4-1/4" X 1/8")								
H162		16- 7/8"-9 NC X 4" LG. SOC. HD. CAP SCREWS								
H163		16- HI-COLLAR LOCKWASHERS FOR 7/8" SCREWS								
H164		BUTTWELD FLANGE B-1315-1 2 MS B-1315								
H165		2-HYD. "O" RING #228-V709-90 (2-1/4" ID X 2-1/2" OD X 1/8")								
H166		8- 1/2"-13 NC X 1-3/4" LG. SOC. HD. CAP SCREWS								
H167		6- HI-COLLAR LOCKWASHERS FOR 1/2" SCREWS								
H168		RELIEF VALVE								
		COVER B-1291-1 1 CRS B-1291								
H169		4-HYD. "O" RINGS #012-V709-90 (3/8" X 1/2" X 1/16")								
H170		2-#4 SAE ST. THREAD PLUG								
H171		RELIEF VALVE								
		ADAPTOR B-1301-1 1 CRS B-1301								
H172		4-HYD. "O" RINGS #012-V709-90 (3/8" X 1/2" X 1/16")								
H173		2-#4 SAE ST. THREAD PLUGS								

WILLIAMS, WHITE & CO. PARTS LIST

MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

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Part No.	Item No.	DESCRIPTION					
H174		LOCATING COLLAR A-5834-1 1 MS A-5834					
H175		2-HYD. "0" RING #443-V709-90 (7-1/2" X 8" X 1/4")					
H176		2-PARKER PARBAK BACK-UP RING #8-443-N300-9					
H177		PREFILL FLANGE 4962WN-1 2 MS 4962WN					
H178		8- 3/4"-10 NC X 5-1/2" LG. SOC. HD. CAP SCREWS					
H179		8- HI-COLLAR LOCKWASHERS FOR 3/4" SCREWS					
H180		DRIVE PUMP CONTROL					
		MANIFOLD 4956WN-1 1 MS 4956WN FILE #10186					
H181		1-MAIN SAE BUTTWELD FLANGE #BWSAEP-16-20L W/MTG. KIT					
		#MK582					
H182		2-MAIN SAE BUTTWELD ST. FLANGE #BWSAEP-20-60L W/MTG. KIT					
		#MK1575					
H183		1-MAIN SAE SOC. WELD ST. FLANGE #WSAEP-24-20 W/MTG. KIT #MK508					
H184		1-MAIN SAE BUTTWELD ELBOW FLANGE #BWLSEAF-16-20L W/MTG. KIT					
		#MK546					
H185		1-#24 SAE ST. THD. PLUG					
H186		1-#16 SAE ST. THD. PLUG					
H187		4-SOC. HD. CAP SCREWS 3/4"-10 NC X 2-3/4" LG. ITEM B15					

WILLIAMS, WHITE & CO. PARTS LIST

MACHINE 2000 TON HSB. TYPE, M.D., HYD. PRESS

ORDER NO. C-4261-M2

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H188		4-SOC. HD. CAP SCREWS 5/8"-11 NC X 2-1/4" LG. ITEM B9								
H189		4-SOC. HD. CAP SCREWS 1/2"-13 NC X 2" LG. ITEM B10C								
		<u>NOTE:</u> TORQUE BOLTS ON ITEM B15 TO 370 FT./LBS.								
		TORQUE BOLTS ON ITEM B9 TO 200 FT./LBS.								
		TORQUE BOLTS ON ITEM B10C TO 80 FT. LBS.								
H190		SET-UP CLOSE								
		MANIFOLD 4960WN-1 1 MS 4960WN FILE #10191								
H191		4-SOC. HD. CAP SCREWS 5/16"-18 NC X 1-1/2" LG. ITEM E17								
H192		4-SOC. HD. CAP SCREWS #10-24 NC X 2" LG. ITEM E25								
		<u>NOTE:</u> TORQUE BOLTS ON ITEM E17 TO 25 FT./LBS.								
		TORQUE BOLTS ON ITEM E25 TO 40-53 IN./LBS.								
H193		1-#8 SAE ST. THD. PLUG								
H194		1-#6 SAE ST. THD. PLUG								
H195		2-#4 SAE ST. THD. PLUG								
H196		1-SOC. SET SCREW 5/8"-18 NF X 3/4" LG. ITEM E33								
		{W.W. & CO. TO DRILL 5/16" DRIFICE IN SET SCREW}								

WILLIAMS, WHITE & CO. PARTS LIST

MACHINE
2000 TON HSG. TYPE, M.D., HYD. PRESS

ORDER NO. C-4261-42

CUSTOMER TAYLOR-WHARTON CYLINDERS, HARRISBURG, PA

Issue
Date 07-03-21

Issued By	RAL	Checked By	DWN	Checkout By	RNH	Rev No.	Rev Date	Page No.
	Part No.	Item No.	DESCRIPTION					
H197			TANK LINE					
			MANIFOLD	4955WN-1	1	MS	4955WN	
H198			1-MAIN SAE SOC. WELD FLANGE #WSAEP-28-20 W/MTG. KIT #MK509					
H199			1-MAIN SAE BLIND FLANGE #WSAEP-28-20S-00 W/MTG. KIT #MK509					
H200			4-SOC. HD. CAP SCREWS 7/8"-9 NC X 3-1/4" LG. ITEM B7					
			<u>NOTE:</u> TORQUE BOLTS ON ITEM B7 TO 385 FT./LBS.					
H201			AUX. PUMP CONTROL					
			MANIFOLD	4957WN-1	1	MS	4957WN	FILE #10187
H202			1-MAIN SAE SOC. WELD FLANGE #WSAEP-16-20 W/MTG. KIT #MK506					
H203			2-MAIN SAE BUTTWELD ELBOW FLANGE #BWLSEAP-12-60H W/MTG. KIT #MK553					
H204			1-MAIN SQ. BUTTWELD FLANGE #BPSO-16-30H W/MTG. KIT #MK581					
H205			1-#20 SAE ST. THD. PLUG					
H206			3-#16 SAE ST. THD. PLUG					
H207			4-#4 SAE ST. THD. PLUG					
H208			8-SOC. HD. CAP SCREWS 5/8"-11 NC X 2-1/4" LG. ITEM B8A & B					
H209			8-SOC. HD. CAP SCREWS 1/2"-13 NC X 2" LG. ITEM B10A & B					
H210			4-SOC. HD. CAP SCREWS 1/2"-13 NC X 1-1/2" LG. ITEM B14					

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WILLIAMS, WHITE & CO. PARTS LIST

MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

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Part No.	DESCRIPTION										
H211	8-SOC. HD. CAP SCREWS #10-24 NC X 2" LG. ITEM B17A & B										
	NOTE: TORQUE BOLTS ON ITEM B9A & B TO 200 FT./LBS.										
	TORQUE BOLTS ON ITEM B10A & B TO 80 FT./LBS.										
	TORQUE BOLTS ON ITEM B14 TO 61 FT./LBS.										
	TORQUE BOLTS ON ITEM B17A & B TO 40-53 IN./LBS.										
H212	ASSIST PUMP GROUP										
	#1 & 2 CONTROL										
	MANIFOLD 4958WN-1 1 MS 4958WN FILE #X-2572										
H213	4-MAIN SAE BUTTWELD FLANGE #BWSAEP-16-20L W/MTG. KIT #MK582										
H214	1-MAIN SG. BUTTWELD FLANGE #BFSO-24-30L W/MTG. KIT #MK1519										
H215	1-MAIN SAE BUTTWELD FLANGE #BWSAEP-20-60L W/MTG. KIT #MK1575										
H216	1-MAIN SAE SOC. WELD FLANGE #WSAEP-32-20 W/MTG. KIT #MK510										
H217	1-MAIN SAE BUTTWELD ELBOW FLANGE #BWLSEAEP-16-20L W/MTG. KIT #MK546										
H218	16-SOC. HD. CAP SCREWS 3/4"-10 NC X 3-1/2" LG. ITEM C6A & B, C7 A & B										
H219	8-SOC. HD. CAP SCREWS 3/4"-10 NC X 2-3/4" LG. ITEM C8A & B										
H220	8-SOC. HD. CAP SCREWS 5/8"-11 NC X 2-1/4" LG. ITEM C9A & B										
H221	8-SOC. HD. CAP SCREWS 5/8"-11 NC X 2" LG. ITEM C12A & B										
H222	8-SOC. HD. CAP SCREWS 1/2"-13 NC X 2" LG. ITEM C10A & B										
H223	8-SOC. HD. CAP SCREWS #10-24 NC X 2" LG. ITEM C13A & B										

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MACHINE
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Part No.	Item No.	DESCRIPTION								
H235		16-SOC. HD. CAP SCREWS 5/8"-11 NC X 2-1/4" LG. ITEM D10A & B,								
		D11A & B								
H236		4-SOC. HD. CAP SCREWS 5/8"-11 NC X 2" LG. ITEM D15								
H237		8-SOC. HD. CAP SCREWS 1/2"-13 NC X 2" LG. ITEM D12A & B								
H238		8-SOC. HD. CAP SCREWS 1/2"-13 NC X 1-1/2" LG. ITEM D16A & B								
H239		4-SOC. HD. CAP SCREWS #10-24 NC X 3-5/8" LG. ITEM D19								
H240		20-SOC. HD. CAP SCREWS #10-24NC X 2" LG. ITEM D18A-E								
		<u>NOTE:</u> TORQUE BOLTS ON ITEM D7, D8A & B, D9A & B TO 385 FT./LBS.								
		TORQUE BOLTS ON ITEM D10A & B, D11A & B TO 200 FT./LBS.								
		TORQUE BOLTS ON ITEM D15 TO 210 FT./LBS.								
		TORQUE BOLTS ON ITEM D12A & B TO 60 FT./LBS.								
		TORQUE BOLTS ON ITEM D16A & B TO 81 FT./LBS.								
		TORQUE BOLTS ON ITEM D18A-E, D19 TO 40-53 IN./LBS.								
H241		6-#24 SAE ST. THD. PLUG								
H242		7-#20 SAE ST. THD. PLUG								
H243		8-#16 SAE ST. THD. PLUG								
H244		2-#8 SAE ST. THD. PLUG								
H245		2-#6 SAE ST. THD. PLUG								
H246		4-#4 SAE ST. THD. PLUG								

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Part No.	Item No.	DESCRIPTION								
H247		PREFILL SWITCH								
		ASSY.								
H248		PORT 5 FLANGE B-1317-1 2 MS B-1317								
H249		ADAPTOR FLANGE A-6468-1 2 CRS A-6468								
H250		PROXIMITY								
		SWITCH BRACKET A-6469-1 2 A-6469 (ANGLE IRON)								
H251		2-PARKER TYPE "B" POLYPAK #12500250-250B								
H252		2-PARKER MOLYTHANE TYPE "D" WIPER #D-0250								
H253		2-OILITE SLEEVE BEARING #AAB-1519-1 (1/4" X 1/2" X 1/2")								
H254		2-ALLEN BRADLEY INDUCTIVE PROXIMITY SENSOR #B71T-G2A12								
H255		2- 1/4" DIA. X 30" LG. COLD FINISHED ROUND								
H256		2-TYPE "A" PLAIN WASHER (.438 X 1.375 X .083)								
H257		2-HYD. "O" RING #334-V709-90 (2-5/8" X 3" X 3/16")								
H258		2-SOC. HD. CAP SCREWS #10-24 NC X 3/4" LG.								
H259		4-SOC. HD. CAP SCREWS #10-24 NC X 1/2" LG.								
H260		4-SOC. HD. CAP SCREWS 5/8"-11 NC X 4-3/4" LG.								
H261		6- HI-COLLAR LOCKWASHERS FOR #10 SCREWS								
H262		4- HI-COLLAR LOCKWASHERS FOR 5/8" SCREWS								

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Part No.	Item No.	DESCRIPTION							
E1	1*	1-ALLEN BRADLEY 2100 CENTERLINE MOTOR CONTROL CENTER AS PER							
		ALLEN BRADLEY PROPOSAL #208514/01							
		THE MCC WILL INCLUDE, BUT IS NOT LIMITED TO, THE FOLLOWING							
		COMPONENTS:							
		9-ALLEN BRADLEY 20 INCH DEEP SECTIONS WITH BOTTOM PLATE AND							
		2000 AMP MAIN COPPER TIN BUS AND A 1" GROUND BUS TOP AND							
		BOTTOM, 42 KA BUS BRACING							
		1-ALLEN BRADLEY 2193M-JJC-60WT-53F500 2000 AMP MAIN DISCONNECT							
		CIRCUIT BREAKER WITH CRIMP LUGS, 35K INTERRUPTING CAPACITY							
		7-ALLEN BRADLEY 2112B-FDBD-28R-9088 SIZE 5 FULL VOLTAGE NON-							
		REVERSING MOTOR STARTER WITH 120 VOLT CONTROL AND A 400 AMP							
		FUSIBLE DISCONNECT WITH 2 AUXILIARY CONTACTS							
		21-ALLEN BRADLEY W-42 HEATER ELEMENTS							
		1-ALLEN BRADLEY 2112B-EDBD-27R-90088 SIZE 4 FULL VOLTAGE NON-							
		REVERSING MOTOR STARTER WITH 120 VOLT CONTROL AND A 400 AMP							
		FUSIBLE DISCONNECT WITH 2 AUXILIARY CONTACTS							
		3-ALLEN BRADLEY W-73 HEATER ELEMENTS							
		1-ALLEN BRADLEY 2100-NJ15 EMPTY UNIT INSERT							
		1-ALLEN BRADLEY 2192F-BJC-24R 30 AMP FUSIBLE FEEDER DISCONNECT							
E2	2	9-ALLEN BRADLEY 800T-B6A RED, EXTENDED MOMENTARY CONTACT							
		PUSHBUTTON							
E3	3	2-ALLEN BRADLEY 800T-A2A BLACK, FLUSH MOMENTARY CONTACT							
		PUSHBUTTON							
E4	4	3-ALLEN BRADLEY 800T-N13 EXTRA-LONG PUSHBUTTON GUARD							

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Part No.	Item No.	DESCRIPTION							
E5	5	1-ALLEN BRADLEY 800T-PT16W WHITE, 120 VAC, 60 HZ., TRANSFORMER							
		TYPE PILOT LIGHT, PUSH-TO-TEST							
E6	6	3-ALLEN BRADLEY 800T-PA16R RED, 120 VAC, 60 HZ., TRANSFORMER							
		TYPE GUARDED ILLUMINATED PUSHBUTTON							
E7	7	10-ALLEN BRADLEY 800T-PA16A AMBER, 120 VAC, 60 HZ., TRANSFORMER							
		TYPE GUARDED ILLUMINATED PUSHBUTTON							
E8	8	1-ALLEN BRADLEY 800T-PA16B BLUE, 120 VAC, 60 HZ., TRANSFORMER							
		TYPE GUARDED ILLUMINATED PUSHBUTTON							
E9	9	2-ALLEN BRADLEY 800T-P16A AMBER, 120 VAC, 60 HZ. TRANSFORMER							
		PILOT LIGHT							
E10	10	1-ALLEN BRADLEY 800T-D2A BLACK MUSHROOM HEAD PUSHBUTTON							
E11	11	1-ALLEN BRADLEY 800T-N129 MUSHROOM HEAD PUSHBUTTON GUARD							
E12	12	1-ALLEN BRADLEY 800T-J44KC1B 3-POSITION KEYLOCK SELECTOR SWITCH							
E13	13	1-ALLEN BRADLEY 800T-E11A KEYLOCK PUSHBUTTON							
E14	14	1-ALLEN BRADLEY 800T-H33A KEYLOCK OPERATOR 2-POSITION SELECTOR SWITCH, MAINTAINED POSITION							
E15	15	2-ALLEN BRADLEY 800P-1FINBS BLACK PALM OPERATED PUSHBUTTON							
E16	16	1-ALLEN BRADLEY 800T-D5JA YELLOW JUMBO HEAD PUSHBUTTON							
E17	17	3-ALLEN BRADLEY 800T-D6JA JUMBO RED MUSHROOM HEAD PUSHBUTTON							
E18	18	1-ALLEN BRADLEY 800T-N151 JUMBO MUSHROOM GUARD							
E19	19	1-ALLEN BRADLEY 700-P1200-A1 12-POLE RELAY, 120 VAC, 60 HZ.							
		COIL							
E20	20	1-ALLEN BRADLEY 700-P400-A1 4-POLE RELAY, 120 VAC, 60 HZ. COIL							
E21	21*	1-ALLEN BRADLEY 1771-A4B 16-SLOT I/O CHASSIS							
E22	22*	1-ALLEN BRADLEY 1785-LT PLC-5/15 PROCESSOR							

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Part No.	Item No.	DESCRIPTION							
E23	23*	4-ALLEN BRADLEY 1771-IAD 120 VAC INPUT MODULE, 16 PT.							
E24	24*	4-ALLEN BRADLEY 1771-OAD 120 VAC OUTPUT MODULE, 16 PT.							
E25	25*	1-ALLEN BRADLEY 1771-OFE1 ANALOG OUTPUT MODULE							
E26	26*	1-ALLEN BRADLEY 1771-IFE ANALOG INPUT MODULE							
E27	27*	1-ALLEN BRADLEY 1771-IGD TTL INPUT MODULE, 16 PT.							
E28	28*	1-ALLEN BRADLEY 1771-OG TTL OUTPUT MODULE, 8 PT.							
E29	29*	1-ALLEN BRADLEY 1785-KE RS-232 COMMUNICATION MODULE							
E30	30*	1-ALLEN BRADLEY 1771-P7 16 A. BACKPLANE POWER SUPPLY							
E31	31	1-ALLEN BRADLEY 1771-CP1 POWER SUPPLY CABLE							
E32	32	1-ALLEN BRADLEY 1494V-DS30 30 A. DISCONNECT SWITCH							
E33		1-ALLEN BRADLEY 1494V-H1 HANDLE MECHANISM							
E34		1-ALLEN BRADLEY 1494V-RA2 LONG CONNECTING ROD							
E35	33*	1-ACTION INSTRUMENTS AP4350-A001 ISOLATED THERMOCOUPLE							
		TRANSMITTER FOR TYPE J T/C, -150 TO 1380 DEG. FAHRENHEIT							
		INPUT RANGE							
E36	34	1-BARBER COLEMAN P011-31424-000-2-00 RIGID TUBE TYPE "J" T/C,							
		24" LONG WITH MATING JACK AND COMPRESSION FITTING							
E37	35	2-BRAD HARRISON 22803 SHORTING PLUG W/CHAIN							
E38		2-BRAD HARRISON 22801 RUBBER ANGLE RECEPTACLE							
E39	36	1-HOFFMAN F-44T36HC WIRING TROUGH							
E40	37	21-BUSS FRS-R300 DUAL ELEMENT FUSE, 300A/600V							
E41	38	3-BUSS FRS-R100 DUAL ELEMENT FUSE, 100A/600V							
E42	39	3-BUSS FRS-R30 DUAL ELEMENT FUSE, 30A/600V							
E43	40	2-BUSS FRS-R10 DUAL ELEMENT FUSE, 10A/600V							
E44	41	2-BUSS FRS-R6-1/4 DUAL ELEMENT FUSE, 6-1/4,600V							

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Part No.	Item No.	DESCRIPTION							
E45	42	1-BUSS FRN-R30 DUAL ELEMENT FUSE, 30A/250V							
E46	43	1-BUSS FRN-R20 DUAL ELEMENT FUSE, 20A/250V							
E47	44	1-BUSS FRN-R15 DUAL ELEMENT FUSE, 15A/250V							
E48	45	4-BUSS FRN-R10 DUAL ELEMENT FUSE, 10A/250V							
E49	46	1-BUSS FRN-R5 DUAL ELEMENT FUSE, 5A/250V							
E50	47	1-BUSS FNA-2 DUAL ELEMENT INDICATING TYPE FUSE, 2A/125V							
E51	48	2-BUSS FNA-1/2 DUAL ELEMENT INDICATING TYPE FUSE, 1/2A/250V							
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E52	50	4- FUSE BLOCK, 30A/600V, REJECTION TYPE, 1-POLE							
E53	51	8- FUSE BLOCK, 30A/250V, REJECTION TYPE, 1-POLE							
E54	52	3- FUSE BLOCK, 10A/125V, 1-POLE FOR 1-1/2" X 13/32" FUSE							
E55	53*	1-CONTROL CONCEPTS IC+115 ISLATROL , ACTIVE TRACKING FILTER 15 AMP, 120 VAC							
E56	54	1-GENERAL ELECTRIC 9T58B55 3.0 KVA CONTROL TRANSFORMER, 480/240 VAC PRIMARY, 120 VAC SECONDARY, 60 HZ.							
E57	55	1-GENERAL ELECTRIC 9T58B54 2.0 KVA CONTROL TRANSFORMER, 480/240 VAC PRIMARY, 120 VAC SECONDARY, 60 HZ.							
E58	56*	3-GENERAL ELECTRIC 200 H.P. HORIZONTAL INDUCTION MOTOR, 1800 RPM, 460V, 3 PHASE, 60 HZ., 1.0 SF, 300% BREAKDOWN TORQUE, CLASS B INSULATION, NEMA DESIGN A, TEFC ENCLOSURE, F1 FOOT MOUNT, SINGLE SHORT SHAFT, C FACE, 44STSC FRAME							

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Part No.	Item No.	DESCRIPTION								
E59	57*	4-GENERAL ELECTRIC 200 H.P. HORIZONTAL INDUCTION MOTOR, 1800 RPM, 460V, 3 PHASE, 60 HZ., 1.0 SF, 300% BREAKDOWN TORQUE,								
		CLASS B INSULATION, NEMA DESIGN 2, TEFC ENCLOSURE, F2 FOOT MOUNT, SINGLE SHORT SHAFT, C FACE, 445TSC FRAME								
E60	58*	1-GENERAL ELECTRIC 60 H.P. HORIZONTAL INDUCTION MOTOR, 1800 RPM, 460V, 3 PHASE, 60 HZ., 1.15 SF, 200% BREAKDOWN TORQUE,								
		CLASS B INSULATION, NEMA DESIGN B, TEFC ENCLOSURE, F1 FOOT MOUNT, SINGLE SHORT SHAFT, SINGLE C-FACE, 364TSC FRAME								
E61	59	1-HOFFMAN A-84XM7818 2-DOOR TWO DOOR ENCLOSURE WITH PANEL, MODIFIED TO BE NEMA 13, ENCLOSURE DOORS SHALL BE SUPPLIED WITH KEYLOCKING HANDLES IN PLACE OF STANDARD HANDLES, AS PER HOFFMAN QUOTE #325083								
E62		1-HOFFMAN A-21ABVA OPERATOR ADAPTOR FOR A.B. 1494V OPERATOR								
E63	60	1-HOFFMAN C-12C12 CONSOLE								
E64		1-HOFFMAN A-44CCOL PEDESTAL COLUMN								
E65		1-HOFFMAN A-18SBASE 18" PEDESTAL BASE								
E66	61*	1-HOFFMAN D-ACBE041 SERIES B SIDE MOUNT 4000 BTU AIR CONDITIONER 120 VOLT, 1 PHASE								
E67	62	1-HUBBELL 5252 DUPLEX RECEPTACLE, NEMA REF. 5-15R								
E68		1-APPLETON 4SSL-1/2 HANDY BOX								
E69		1-APPLETON 2510 DUPLEX RECEPTACLE COVER								
E70	63*	1-HYCON HDA3172-8-315-000-US, PRESSURE TRANSDUCER, STAINLESS STEEL HOUSING, 9/16"-18 STRAIGHT THREAD PRESSURE CONNECTION,								
		PLUG W/MATCHING STRAIGHT CONNECTOR, 0 TO 10VDC OUTPUT, 0 TO 4567 PSI								

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Part No.	Item No.	DESCRIPTION								
E71	64*	1-HYCON HDA3172-8-100-000-US PRESSURE TRANSDUCER, STAINLESS								
		STEEL HOUSING, 9/16"-18 STRAIGHT THREAD PRESSURE CONNECTION,								
		PLUG W/MATCHING STRAIGHT CONNECTOR, 0 TO 10VDC OUTPUT, 0 TO								
		1450 PSI								
E72	65	2-MICRO SWITCH LSA1A PLUG-IN LIMIT SWITCH								
E73		2-MICRO SWITCH LSZ51L BALL BEARING ROLLER ARM								
E74	66*	1-MTS TTS-RCU-0780 TEMPOSONICS II TRANSDUCER, RIGID 0.375" ROD								
		WITH INTEGRATED CONNECTOR, NEMA 6 HEAD ENCLOSURE, 76" STROKE,								
		2" NULL, 2.5" DEAD ZONE								
E75	67*	1-MTS TEMPOSONICS TSC-86F04-RCU0780 TEMPOSONICS II DIGITAL								
		COUNTER CARD, UP TO 18 BITS NATURAL BINARY OUTPUT, FORWARD								
		COUNT, 1 MICROSECOND LATCH PULSE AND LATCH OUTPUT INHIBIT,								
		0.001" RESOLUTION FOR 78.0" TRANSDUCER								
E76	68*	1-MTS TEMPOSONICS 01107805414020 DIGITAL INTERFACE BOX FOR 78"								
		TRANSDUCER, +/- 15VDC, -40 TO +190 DEGREE F, UPDATE 5.0 MSEC,								
		INTERNAL INTERROGATION, 4 RECIRCULATIONS, STANDARD ENCLOSURE								
		370013 CONNECTOR FOR J1 CONNECTION ON DIB, 10 PIN FEMALE								
E77	69	1-MTS TEMPOSONICS M00501 TEMPOSONICS II TRANSDUCER EXTENSION								
		CABLE, 5' LENGTH WITH MOLDED PLUG AND 6 PIN PLUG FOR DIB								
		CONNECTION WITH STROKE OVER 12"								
E78	70	1-MTS TEMPOSONICS 201542 TEMPOSONICS II MAGNET, 1.29" O.D.								
E79	71*	1-OEM CONTROLS MS4M4505 SINGLE AXIS CONTROL WITH 10K OHM CENTER								
		TAPPED 2 WATT POTENTIOMETER, 2-SPDT LIMIT SWITCHES WITH ONE								
		SWITCH TRIPPING EITHER SIDE OF CENTER, SPRING RETURN TO								
		CENTER POSITION								

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Part No.	Item No.	DESCRIPTION								
E80		1-W.W.&CO. B-1170-1 HAND LEVER GUARD								
E81		1-W.W.&CO. B-1170-2 GASKET								
E82	72*	1-POWER ONE HB5-3/OVP-A +5 VDC @ 3 A. POWER SUPPLY								
E83	73*	1-POWER ONE HAA15-0.8-A +/- 15 VDC @ 0.8 A. POWER SUPPLY								
E84	74*	1-POWER ONE HD24-4.8-A +24 VDC @ 4.8 A. POWER SUPPLY								
E85	75*	1-SPECTER 3200A-1 REGISTER TRANSLATOR								
E86		1-SPECTER ABS3-3200A CONFIGURATION FIRMWARE FOR A.B. PLC-5								
E87	76	3-THOMAS & BETTS MS216 1/6 POSITION MALE INSERT								
E88		3-THOMAS & BETTS SH616-L 1/6 POSITION HOOD, 3/4" NPT PORT								
E89		3-THOMAS & BETTS DCL116B-1 PLASTIC DUST COVER								
E90	77	2-THOMAS & BETTS FS116 1/6 POSITION FEMALE INSERT								
E91		2-THOMAS & BETTS PB316 1/6 POSITION PANEL MOUNT BASE								
E92	78	1-VICKERS EEA-PAM-571-A-12 POWER AMPLIFIER BOARD WITH POSITION CONTROL								
E93		1-VICKERS 507739 CARD HOLDER								
E94	79	1-W.W. & CO. 4331WN COUNTER CARD INTERFACE BLOCK								
E95	80	1-W.W. & CO. A-3409 WARNING PLATE								
E96	81*	1-W.W. & CO. A-6017-1 RS-232-C CABLE								
E97	82	1-W.W. & CO. A-3892-1 WARNING PLATE								
E98	83	2-W.W. & CO. A-6118-1 WARNING PLATE								
E99	84	1-W.W. & CO. ELECTRICAL DATA PLATE PER DWG. 4947WN-010								
E100	85	AS REQ-BELDEN 9463 (OR EQUIV.) TWINAXIAL CABLE								
E101	86	AS REQ- 1" PANEL DUCT								
E102	87	AS REQ- 2" PANEL DUCT								
E103	88	AS REQ- 3" PANEL DUCT								

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WILLIAMS, WHITE & CO. PARTS LIST

MACHINE 2000 TON HSG. TYPE, M.D., HYD. PRESS

ORDER NO. C-4261-M2

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Part No.	Item No.	DESCRIPTION							
E104	89	1-	150 OHM, 1/4 WATT RESISTOR						
E105	90	AS REQ-ALLEN BRADLEY 1492-H1 CHANNEL MOUNT TERMINAL BLOCK							
E106	91	AS REQ-ROYAL OAK LEGEND PLATES PER W.W. & CO. DWG. 4947WN-010							
E107	92	AS REQ-PLACARDS PER W.W. & CO. DWG. 4947WN-010							
	93	REF-W.W. & CO. DWG #1688WN SLIDE LOCK ASSEMBLY							
	94	REF-W.W. & CO. B-1006-1 LEVEL SWITCH ASSEMBLY							
	95	REF-W.W. & CO. SCAVENGER ASSEMBLY (B-868 WIRING) (HYD. ITEM #B31)							
	96	REF-TRABON LUBE CYCLE SWITCH (LUBE ITEM #4)							
	97	REF-TRABON LUBE LEVEL SWITCH (LUBE ITEM #1)							
	98	REF-TRABON LUBE PUMP (LUBE ITEM #1)							
	99	REF-VICKERS 4-WAY VALVE (HYD. ITEM #B16)							
	100	REF-VICKERS 4-WAY VALVE (HYD. ITEM #E23)							
	101	REF-VICKERS 4-WAY VALVE (HYD. ITEM #C13)							
	102	REF-VICKERS 4-WAY VALVE (HYD. ITEM #D18)							
	103	REF-BARKSDALE PRESSURE SWITCH (HYD. ITEM #A10)							
	104	REF-BARKSDALE PRESSURE SWITCH (HYD. ITEM #A9)							
	105	REF-VICKERS EHST RELIEF VALVE (HYD. ITEM #E20)							
	106	REF-VICKERS PROPORTIONAL CONTROL VALVE (HYD. ITEM #B15)							
	107	REF-SKINNER 2-WAY VALVE (HYD. ITEM #A7)							
	108	REF-VICKERS 4-WAY VALVE (HYD. ITEM #D19)							
	109	REF-VICKERS 4-WAY VALVE (HYD. ITEM #B17)							
	110	REF-VICKERS 4-WAY VALVE (HYD. ITEM #E25)							
	111	REF-PREFILL VALVE ASSEMBLY W.W. & CO. DWG. 4946WN							
	112	REF-W.W. & CO. B-1006-3 LEVEL SWITCH ASSEMBLY							
	113	REF-VICKERS 4-WAY VALVE (HYD. ITEM #E24)							

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			RNH	1		53
Part No.	Item No.	DESCRIPTION				
		SUGGESTED SPARE PARTS LIST				
		1 SET-GARLOCK CHEVRON PACKING #432-C CUT OPEN, W/FILLERS, 261				
		(CUT OPEN) RHT&B (18-1/2" I.D. X 20" O.D. X 2-13/16" HIGH)				
		2-GARLOCK KLOZURES #64X4216 (18-1/2" X 20-1/2" X 7/8")				
		4-DOUBLE SEAL PISTON RINGS, TYPE INSEAL 25" O.D. X 3/4" WIDE				
		4-HYD. "O" RING #338-V709-90 (3-1/8" X 3-1/2" X 3/16")				
		1-HYD. "O" RING #468-V709-90 (19-1/2" X 20" X 1/4")				
		2-HYD. "O" RING #V709-90 HOT SPLICED (24-1/2" X 25" X 1/4")				
		1 SET-GARLOCK CHEVRON PACKING #432-C CUT OPEN, W/FILLERS 261				
		RHT&B (CUT OPEN) (23-1/2" X 25-1/2" X 3-9/16")				
		2-GARLOCK KLOZURES #64X4288 (23-1/2" X 25-1/2" X 7/8")				
		1-CHESTERTON SUPER MONOSEAL 10,000 MOLD NO. 60361				
		(23" X 25" X 1-1/2")				
		1-HYD. "O" RING #474-V709-90 (25" X 25-1/2" X 1/4")				
		1-HYD. "O" RING #334-V709-90 (2-5/8" X 3" X 3/16")				
		2-GEMS CO. LEVEL SWITCH NO. 26717 115 VOLT, 60 HZ. STAINLESS				
		STEEL				

WILLIAMS, WHITE & CO. PARTS LIST

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Part No.	Item No.	DESCRIPTION							
		SUGGESTED HYDRAULICS SPARE PARTS LIST							
		<u>VICKERS</u>							
		1-#920175 SEAL KIT FOR 25mm CARTRIDGE VALVE							
		1-#920365 SEAL KIT FOR 32mm CARTRIDGE VALVE							
		1-#920177 SEAL KIT FOR 40mm CARTRIDGE VALVE							
		1-#D64V-3-2A-MS-U-B-40 4-WAY VALVE							
		1-#D64V-3-2AL-M-U-B-40 4-WAY VALVE							
		2-#D64V-3-2A-M-U-B-40 4-WAY VALVE							
		1-#D64S4-012A-U-B-50 4-WAY VALVE							
		1-#D65S-8-6A-T-M-U-B-20 4-WAY VALVE							
		1-#EHST-E-FVF-11 PROPORTIONAL RELIEF VALVE							
		1-#CV6C-3-W-250-10 RELIEF VALVE MODULE							
		1-#D6MC-3-PT-CW-40 RELIEF VALVE MODULE							
		<u>REXROTH</u>							
		1-#314352 SEAL KIT FOR 16mm CARTRIDGE VALVE INSERT							
		2-#314354 SEAL KIT FOR 25mm CARTRIDGE VALVE INSERT							
		2-#314356 SEAL KIT FOR 32mm CARTRIDGE VALVE INSERT							
		4-#314055 SEAL KIT FOR 40mm CARTRIDGE VALVE INSERT							
		1-#314056 SEAL KIT FOR 50mm CARTRIDGE VALVE INSERT							
		1-#314058 SEAL KIT FOR 80mm CARTRIDGE VALVE INSERT							
		1-#313758 SEAL KIT FOR 16mm "D" CARTRIDGE VALVE COVER							
		1-#313951 SEAL KIT FOR 16mm "H2" CARTRIDGE VALVE COVER							
		2-#313760 SEAL KIT FOR 25mm "D" CARTRIDGE VALVE COVER							

WILLIAMS, WHITE & CO. PARTS LIST

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Part No.	Item No.	DESCRIPTION			
		SUGGESTED ELECTRICAL SPARE PARTS LIST			
		1-ACTION INSTRUMENTS AP4350-A001 ISOLATED THERMOCOUPLE			
		TRANSMITTER, FOR TYPE J T/C, -150 TO 1380 DEG. F. INPUT RANGE			
		AS-REQ'D ALLEN BRADLEY 2100 CENTERLINE MOTOR CONTROL CENTER			
		REPLACEMENT PARTS			
		3-ALLEN BRADLEY W-73 HEATER ELEMENTS			
		3-ALLEN BRADLEY W-42 HEATER ELEMENTS			
		1-ALLEN BRADLEY 800T-A2 BLACK PUSHBUTTON OPERATOR			
		1-ALLEN BRADLEY 800T-B6 RED PUSHBUTTON OPERATOR			
		1-ALLEN BRADLEY 800T-D2 BLACK MUSHROOM HEAD PUSHBUTTON OPERATOR			
		1-ALLEN BRADLEY 800T-D6J RED JUMBO MUSHROOM HEAD PUSHBUTTON			
		OPERATOR			
		1-ALLEN BRADLEY 800T-N247Y YELLOW JUMBO MUSHROOM HEAD CAP			
		STD. QTY.--ALLEN BRADLEY 800T-XA PUSHBUTTON CONTACT BLOCK			
		1-ALLEN BRADLEY 800T-F16A AMBER PILOT LIGHT 120V. 60 HZ.			
		1-ALLEN BRADLEY 800T-PT16W WHITE PUSH-TO-TEST PILOT LIGHT 120V. 60 HZ.			
		1-ALLEN BRADLEY 800T-PA16R RED ILLUMINATED PUSHBUTTON WITH			
		GUARD			
		STD. QTY.--ALLEN BRADLEY 800T-N42 AMBER COLOR CAP			
		STD. QTY.--ALLEN BRADLEY 800T-N43 BLUE COLOR CAP			
		VOLTS			
		STD. QTY.--ALLEN BRADLEY 800T-N65 ANSI 755 OR 1866 LAMPS, 6.3			
		1-ALLEN BRADLEY 800P-1F1NBS BLACK PALM OPERATED PUSHBUTTON			

WILLIAMS, WHITE & CO. PARTS LIST

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Part No.	Item No.	DESCRIPTION							
		1-ALLEN BRADLEY 800T-H33A 2-POSITION SELECTOR SWITCH							
		1-ALLEN BRADLEY 800T-J44KC1B KEYLOCK 3-POS SELECTOR SWITCH							
		1-ALLEN BRADLEY 800T-E11A KEYLOCK PUSHBUTTON							
		1-ALLEN BRADLEY 700-P400-A1 4-POLE RELAY, 120 VAC, 60 HZ.							
		1-ALLEN BRADLEY 700-PB40 4-POLE SECOND ADDER DECK							
		1-ALLEN BRADLEY 700-PC40 4-POLE THIRD ADDER DECK							
		1-ALLEN BRADLEY 1785-LT PLC-5/15 PROCESSOR							
		1-ALLEN BRADLEY 1771-IAD 16 PT., 120 VAC INPUT MODULE							
		1-ALLEN BRADLEY 1771-OAD 16 PT., 120 VAC OUTPUT MODULE							
		1-ALLEN BRADLEY 1771-OFE1 ANALOG OUTPUT MODULE							
		1-ALLEN BRADLEY 1771-IFE ANALOG INPUT MODULE							
		1-ALLEN BRADLEY 1771-IGD TTL INPUT MODULE							
		1-ALLEN BRADLEY 1771-OG TTL OUTPUT MODULE							
		1-ALLEN BRADLEY 1785-KE RS-232 COMMUNICATION MODULE							
		1-ALLEN BRADLEY 1771-P7 16 A. BACKPLANE POWER SUPPLY							
		1-BRAD HARRISON 22803 SHORTING PLUG W/CHAIN							
		1-HYCON HDA3172-8-315-000-US, 0 TO 4567 PSI PRESSURE TRANSDUCER							
		1-HYCON HDA3172-8-100-000-US, 0 TO 1450 PSI PRESSURE TRANSDUCER							
		STD. QTY.--BUSS FRS-R300 DUAL ELEMENT FUSE, 300 A./600 V.							
		STD. QTY.--BUSS FRS-R100 DUAL ELEMENT FUSE, 100 A./600 V.							
		STD. QTY.--BUSS FRS-R30 DUAL ELEMENT FUSE, 30 A./600 V.							
		STD. QTY.--BUSS FRS-R10 DUAL ELEMENT FUSE, 10 A./600 V.							
		STD. QTY.--BUSS FRS-R6-1/4 DUAL ELEMENT FUSE, 6-1/4A./600 V.							
		STD. QTY.--BUSS FRN-R30 DUAL ELEMENT FUSE, 30 A./250 V.							
		STD. QTY.--BUSS FRN-R20 DUAL ELEMENT FUSE, 20 A./250 V.							

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Part No.	Item No.	DESCRIPTION								
		STD. QTY.-BUSS FRN-R15 DUAL ELEMENT FUSE, 15 A./250 V.								
		STD. QTY.-BUSS FRN-R10 DUAL ELEMENT FUSE, 10 A./250 V.								
		STD. QTY.-BUSS FRN-R5 DUAL ELEMENT FUSE, 5 A./250 V.								
		STD. QTY.-BUSS FNA-1/2 DUAL ELEMENT FUSE, 1/2 A./250 V.								
		STD. QTY.-BUSS FNA-2 DUAL ELEMENT FUSE, 2 A./125 V.								
		1-CONTROL CONCEPTS IC+115 ISLATROL FILTER 15 AMP., 120 VAC								
		1-MICRO-SWITCH LSA1A PLUG-IN LIMIT SWITCH								
		1-MICRO-SWITCH LSZ51L ROLLER ARM								
		1-OEM CONTROLS MS4M4505 SINGLE AXIS CONTROL 10K OHM								
		1-BARBER COLEMAN P011-31424-000-2-00 TYPE "J" THERMOCOUPLE								
		1-POWER ONE HB5-3/DVP-A +5 VDC @ 3 A. POWER SUPPLY								
		1-POWER ONE HAA15-0.8-A +/-15 VDC @ 0.8A. POWER SUPPLY								
		1-POWER ONE HD24-4.8-A +24 VDC @ 4.8 A. POWER SUPPLY								
		1-GEMS 26717 FLOAT SWITCH								
		1-SPECTER 3200A-1 REGISTER TRANSLATOR								
		1-VICKERS EEA-PAM-571-A-12 POWER AMPLIFIER BOARD								
		1-MTS TTS-RCU-0780 TEMPOSONICS II TRANSDUCER, RIGID 0.375" ROD								
		WITH INTEGRATED CONNECTOR, NEMA 6 HEAD ENCLOSURE, 79" STROKE,								
		2" NULL, 2.5" DEAD ZONE								
		1-MTS TEMPOSONICS TSC-86F04-RCU0780 TEMPOSONICS II DIGITAL								
		COUNTER CARD, UP TO 16 BITS NATURAL BINARY OUTPUT, FORWARD								
		COUNT, 1 MICROSECOND LATCH PULSE AND LATCH OUTPUT INHIBIT,								
		0.001" RESOLUTION FOR 78.0" TRANSDUCER								

WILLIAMS, WHITE & CO. PARTS LIST

MACHINE 2000 TON HSB. TYPE, M.D., HYD. PRESS

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Part No.	Item No.	DESCRIPTION								
		1-MTS TEMPOSONICS 01107805414020 DIGITAL INTERFACE BOX FOR 78"								
		TRANSDUCER, +/- 15VDC, -40 TO +190 DEGREE F, UPDATE 5.0 MSEC,								
		INTERNAL INTERROGATION, 4 RECIRCULATIONS, STANDARD ENCLOSURE								
		370013 CONNECTOR FOR J1 CONNECTION ON DIB, 10 PIN FEMALE								
		1-MTS TEMPOSONICS 201542 TEMPOSONICS II MAGNET, 1.29" O.D.								