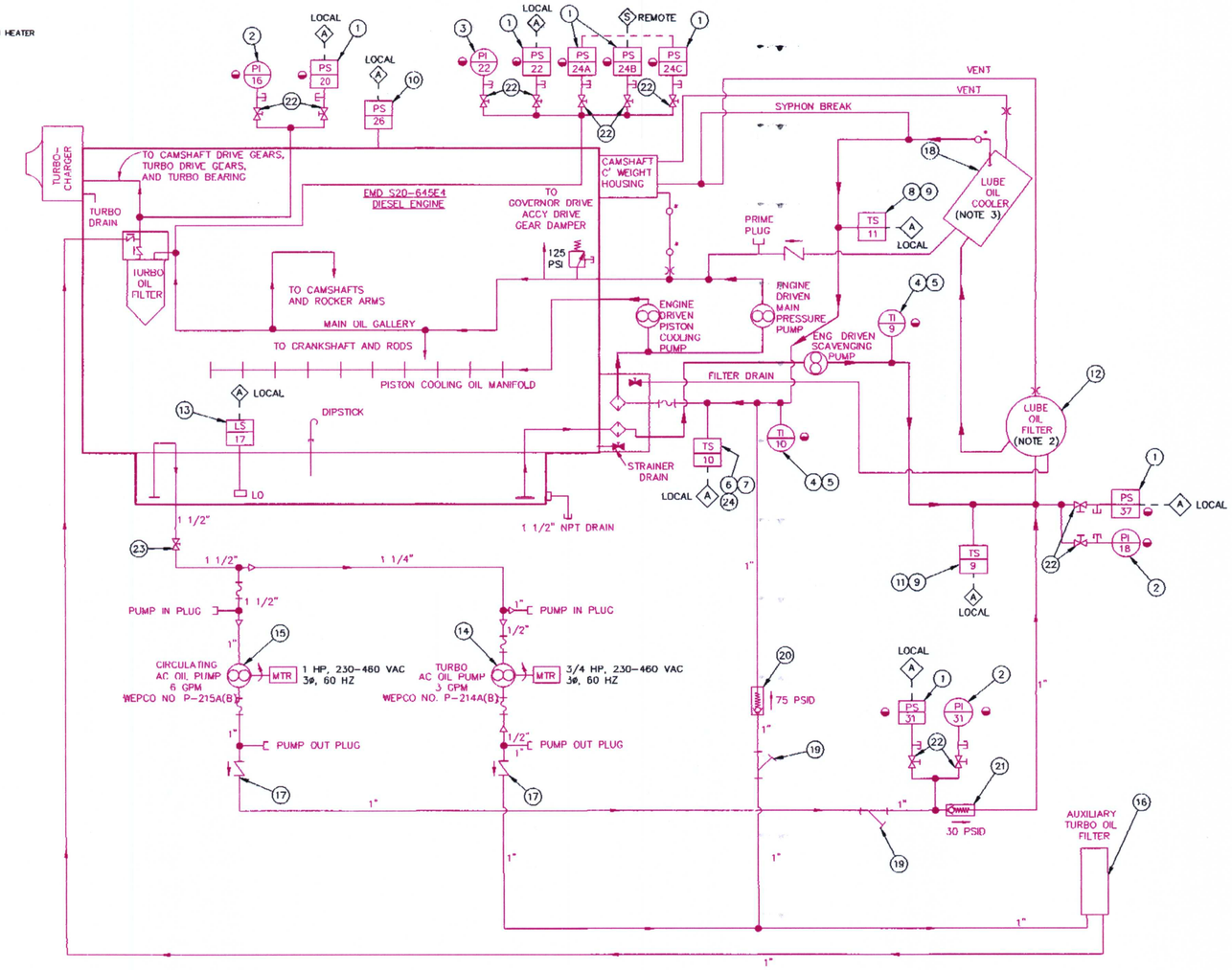
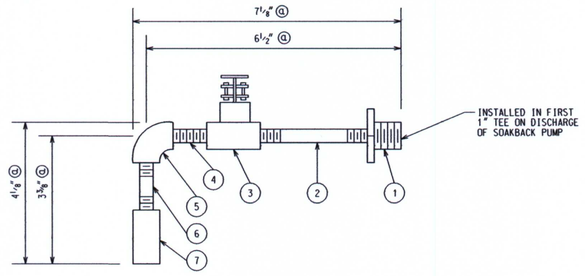
LEGEND

- WATER CONVECTION FLOW IMMERSION HEATER
- SHUTDOWN/ALARM CONTACT
- ALARM CONTACT
- CONTROL CONTACT
- SWITCH, TRANSMITTER, OR OTHER ELECTRICAL DEVICE
- N C VALVE
- N O VALVE
- CHECK VALVE
- RELIEF VALVE
- IN-LINE STRAINER
- FLUID FLOW DIRECTION
- GEAR PUMP
- MECHANICAL GAUGE/INDICATOR
- FLEX CONNECTION
- STRAINER
- ORIFICE
- SIGHT GLASS
- NPT PIPE CAP
- ELECTRIC MOTOR
- PIPE/TUBE ADAPTER
- PIPING BY OTHERS
- SPRING RELIEF CHECK VALVE
- SOLENOID VALVE
- CENTRIFUGAL PUMP
- FLANGED CONNECTION
- FILTER, MANUAL DRAIN, PETCOCK
- LUBRICATOR
- RESISTANCE TEMPERATURE DETECTOR
- REDUCER
- METERING DEVICE
- NPT PIPE PLUG





Ⓐ - WITHOUT BUSHING ENGAGEMENT

1	1" x 1/4" CS BUSHING	L/N 901-1811 QAR 11221
2	1/4" x 2" SS NIPPLE	L/N 902-9001 QAR 4966
3	1/4" GATE VALVE	L/N 904-3268 QAR 2296 Wt 2lb 2 1/2 oz
4	1/4" x CLOSE SS NIPPLE	L/N 902-8994 QAR 10738
5	1/4" 3000# SS ELBOW	L/N 901-5353 QAR 7774
6	1/4" x 2" SS NIPPLE	L/N 902-9001 QAR 4966
7	1/4" SS PIPE CAP	L/N 901-3261 QAR 661

TOTAL WEIGHT 3lb 3oz

G04 (G03) LUBE OIL SAMPLE TAP

D065

NOTES

1. * SIGHT GLASS PROVIDED FOR OIL FLOW AND LEVEL VERIFICATION
2. LUBE OIL FILTER EQUIPPED WITH INTERNAL RELIEF VALVE TO CRACK AT APPROX 40 PSID.
3. LUBE OIL COOLER EQUIPPED WITH INTERNAL RELIEF VALVE TO CRACK AT APPROX. 40 PSID.
4. CHECK ENGINE OIL SUMP LEVEL WITH DIPSTICK-OIL WARM AND ENGINE AT IDLE SPEED
5. ADD OIL TO ENGINE THROUGH SQUARE OPENING OF ENGINE STRAINER BOX WITH ENGINE OFF OR AT IDLE SPEED.
6. NO GALVANIZED OR ZINC PLATED PIPE, FITTINGS,OR CONTAINERS PERMITTED IN CONTACT WITH LUBE OIL
7. REFER TO EMD MI 1760 FOR LUBE OIL REQUIREMENTS
8. SCAVENGING PUMP FLOW 390 GPM MAIN PRESSURE PUMP FLOW 229 GPM PISTON COOLING OIL PUMP FLOW 109 GPM
9. Ⓐ - INDICATES MOUNTED ON NEW SKID MOUNTED PANEL
10. "LOCAL" DESIGNATION AT ALARM INDICATES ALARM AT SKID-MOUNTED ANNUNCIATOR REF DWG 6090F02502
11. "REMOTE" DESIGNATION AT ALARM INDICATES ALARM AT REMOTE ANNUNCIATOR REF DWG 6090F02501
12. FOR INSTRUMENT WEPCO NO SEE NOMENCLATURE CHART REF DWG. 6090F02501 SH. 4.

PRESSURE GAUGE		RANGE
PI-16	TURBOCHARGER OIL PRESSURE	0-100 PSIG
PI-18	LUBE OIL FILTER INLET PRESSURE	0-100 PSIG
PI-22	ENGINE LUBE OIL PRESSURE	0-160 PSIG
PI-31	CIRCULATING OIL PUMP PRESSURE	0-100 PSIG

PRESSURE SWITCH		SETPOINT
PS-20	LOW TURBOCHARGER OIL PRESSURE ALARM SWITCH	8 PSIG↓, 2 PSIG↑
PS-22	LOW ENGINE LUBE OIL PRESSURE ALARM SWITCH	40 PSIG↓, 35 PSIG↑
PS-24A,B,C	LOW ENGINE LUBE OIL PRESSURE SHUTDOWN SWITCH (2 OUT OF 3)	20 PSIG↓, 17 PSIG↑
PS-26	HIGH CRANKCASE PRESSURE ALARM SWITCH	0.8 - 3.0" H_2O↑
PS-31	LOW CIRCULATING OIL PRESSURE ALARM SWITCH	20 PSIG↓, 15 PSIG↑
PS-37	HIGH OIL FILTER INLET PRESSURE ALARM SWITCH	40 PSIG↑, 35 PSIG↓

TEMPERATURE GAUGE		RANGE
TI-9	LUBE OIL TEMPERATURE ENGINE OUTLET	50-300°F
TI-10	LUBE OIL TEMPERATURE ENGINE INLET	50-300°F

TEMPERATURE SWITCH		SETPOINT
TS-9	LUBE OIL FILTER BYPASS TEMPERATURE SWITCH	160°F↓, 150°F↑
TS-10	LOW LUBE OIL TEMPERATURE ALARM SWITCH	95°F↓, 105°F↑
TS-11	HIGH LUBE OIL TEMPERATURE ALARM SWITCH	210°F↑, 200°F↓

LEVEL SWITCH	
LS-17	LOW LUBE OIL SUMP LEVEL

24	406-6	FLANGE, THERMOWELL		MKW/PS A02024	1
23	314	BALL VALVE, 1 1/2" NPT		EMD 8463756	1
22	1104-12	ISOLATION VALVE, 1/4" T		WHITEY SS-4254	11
21	316-1	30 PSID RELIEF CHECK VALVE		EMD 8470730	1
20	316-2	75 PSID RELIEF CHECK VALVE		EMD 9521844	1
19	318	WYE STRAINER		EMD 8280951	2
18		LUBE OIL COOLER		EMD 8437992	1
17	315-2	SWING CHECK VALVE		STOCKHAM B320B-1"	2
16		AUXILIARY TURBOCHARGER FILTER		EMD 8379120	1
15	310	CIRCULATING OIL PUMP ASSEMBLY	P-215A(B)	6076D03006	1
14	312	SOAKBACK OIL PUMP ASSEMBLY	P-214A(B)	6076D03003	1
13		LOW OIL LEVEL SWITCH	LS-17	EMD 8445672	1
12		LUBE OIL FILTER		EMD 8362640	1
11	337-1	TEMPERATURE SWITCH	TS-9	SQ D 9025-GXW3-A6H10	1
10		CRANKCASE PRESSURE SWITCH	PS-26	EMD 8362040	1
9	406-5	TEMPERATURE SWITCH THERMOLWELL, BRASS		SQ-D 9049-A34	1
8	337-2	TEMPERATURE SWITCH	TS-11	SQ D 9025-GXW4-A6H10	1
7	406-4	TEMPERATURE SWITCH THERMOLWELL, BRASS		SQ D 9049-A30	1
6	406-2	TEMPERATURE SWITCH	TS-10	SQ D 9025-GYW2-H10	1
5	1104-30	TEMPERATURE GAUGE, THERMOWELL, BRASS		ASHCROFT 75W0250ST385AA	2
4	1104-18	TEMPERATURE GAUGE, 50-300°F	TI-9,10	ASHCROFT 4 1/2-600A-02-C12-B01-A1-L07-AL	2
3	1104-16	PRESSURE GAUGE, 0-160 PSIG	PI-22	ASHCROFT 4 1/2-1017S-02B-100#	1
2	1104-15	PRESSURE GAUGE, 0-100 PSIG	PI-16,18,31	ASHCROFT 4 1/2-1017S-02B-100#	3
1	1104-13	PRESSURE SWITCH, DPDT	PS-20,22,24,31,37	SQ D 9012-GAW24	7

LEGEND

- MAGENTA - IN SCOPE LR
- BLACK - NOT IN SCOPE LR

LR-MKW-6090F03001 SH-1
UNIT 1 & 2
LUBE OIL SYSTEM

REV. 1 DATE:10-17-03