

# LABORATORY ANALYSIS



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Department **PRESS ROOM**  
 Equipment No. **PP-22 STRIPWELDER (00014)**  
 System **Hydraulic System**  
 Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (60 GAL)**

**MODINEER PLANT 7**  
 #17 CERMAK BLVD., MODINEER PLANT #7  
 ST. PETERS, MO  
 US 63376  
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 T:  
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## DIAGNOSIS

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the oil. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

Lab Number	New	2311-00692	2306-00382	2303-00098
Date of Sample	(Typical)	<b>28 Nov 2023</b>	09 Jun 2023	07 Mar 2023
Oil Added		<b>UNK</b>	UNK	UNK
Last Drain Date		--	--	--
Months on Sample		<b>98.8</b>	93.2	90.2
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## VISCOSITY @ 100F OR 40C (ASTM D-445)

SSU Vis. @ 100F	SSU	166.7	167.5	167.2
cSt Vis. @ 40C	cSt	32.0	32.38	32.32

## COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	0.5	0.5	0.5

## PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	17/15/12	16/13/10	19/17/14
4 Micron & Larger	particles/ml	>5000	<b>1,138</b>	385	2,827
6 Micron & Larger	particles/ml	>2500	<b>319</b>	80	833
14 Micron & Larger	particles/ml	>160	<b>26</b>	6	109
21 Micron & Larger	particles/ml	>40	<b>7</b>	3	41
38 Micron & Larger	particles/ml	>10	<b>0</b>	0	4
70 Micron & Larger	particles/ml	>3	<b>0</b>	0	0

## ICP - OILS (REPORTED IN PARTS PER MILLION)

Element	Unit	<5	<5	<5
Aluminum (Al)	ppm	<5	<5	<5
Antimony (Sb)	ppm	<5	<5	<5
Cadmium (Cd)	ppm	<5	<5	<5
Chromium (Cr)	ppm	<5	<5	<5
Cobalt (Co)	ppm	<5	<5	<5
Copper (Cu)	ppm	<5	<5	<5
Iron (Fe)	ppm	<5	<5	<5
Lead (Pb)	ppm	<5	<5	<5
Manganese (Mn)	ppm	<5	<5	<5
Molybdenum(Mo)	ppm	<5	<5	<5
Nickel (Ni)	ppm	<5	<5	<5
Silver (Ag)	ppm	<5	<5	<5
Tin (Sn)	ppm	<5	<5	<5
Titanium (Ti)	ppm	<5	<5	<5
Vanadium (V)	ppm	<5	<5	<5
Barium (Ba)	ppm	<5	<5	<5
Boron (B)	ppm	<5	<5	<5
Calcium (Ca)	ppm	<b>105</b>	112	117
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	<b>514</b>	541	545
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	<b>617</b>	659
Sulfur (S)	ppm		<b>1,430</b>	1,430
				1,570

Customer Id: WAISTP  
 Sample No.: EN23110692  
 Lab Number: 23110692  
 Test Package: TEST

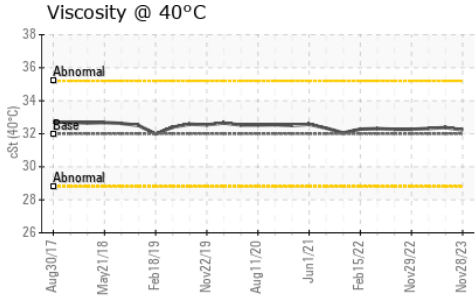


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# OIL ANALYSIS REPORT



## DR FERROGRAPHY READINGS

L		■ 3.9	■ 0.9	■ 3.5
S		■ 0.2	■ 0.1	■ 1.3
WPC	DL + DS	■ 4.1	■ 1	■ 4.8

## CONTAMINATION

Water	>0.05	<b>NEG</b>	NEG	NEG
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