

# LABORATORY ANALYSIS



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Department **MAQUINADO 2**  
Equipment No. **8902.6 HYD F1 MACHINE (CLEVELAND F1 TAPPER) (00009)**  
System **Hydraulic System**  
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

## DIAGNOSIS

The oil is near the end of its useful service life, recommend schedule an oil change. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. cSt Vis. @ 40C is severely high. Zinc (Zn) ppm levels are abnormally low. Viscosity of sample indicates oil is within ISO 46 range, advise investigate.

## SAMPLE INFORMATION

Lab Number	New	2312-00026	2310-00452	2306-00766
Date of Sample	(Typical)	<b>13 Nov 2023</b>	20 Sep 2023	16 Jun 2023
Oil Added		<b>UNK</b>	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		<b>SEVERE</b>	NORMAL	ABNORMAL

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

SSU Vis. @ 100F	SSU	273.8	178.9	217.6
cSt Vis. @ 40C	cSt	32.0	34.62	42.15

## COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	RED	0.5	0.5

## PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	21/18/13	19/16/12	22/19/15
4 Micron & Larger	particles/ml	>5000	<b>12,308</b>	3,314	22,655
6 Micron & Larger	particles/ml	>2500	<b>2,111</b>	551	3,902
14 Micron & Larger	particles/ml	>160	<b>57</b>	25	173
21 Micron & Larger	particles/ml	>40	<b>13</b>	5	32
38 Micron & Larger	particles/ml	>10	<b>1</b>	0	1
70 Micron & Larger	particles/ml	>3	<b>0</b>	0	0

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

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>35</b>	58	61
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	<b>382</b>	485	522
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	<b>345</b>	582
Sulfur (S)	ppm	<b>833</b>	1,300	1,570

Customer Id: ENC0005J03  
Sample No.: EN23120026  
Lab Number: 23120026  
Test Package: TEST



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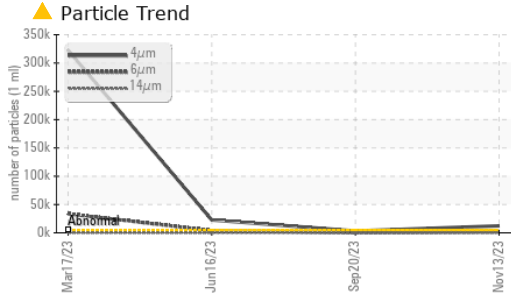
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# OIL ANALYSIS REPORT



### DR FERROGRAPHY READINGS

L		■ 5.5	■ 2.0	■ 16.1
S		■ 1.1	■ 1.7	■ 5.8
WPC	DL + DS	■ 6.6	■ 3.7	■ 21.9

### CONTAMINATION

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