

LABORATORY ANALYSIS



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Department **MAQUINADO 2**
Equipment No. **MA102 HYD CENTRO DE MECANIZADO LB(LB TRANSFER MACHINE) (00002)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

DIAGNOSIS

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. The viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

Lab Number	New	2312-00048	2310-00480	2306-00791
Date of Sample	(Typical)	13 Nov 2023	20 Sep 2023	16 Jun 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

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

SSU Vis. @ 100F	SSU	182.4	179.6	185.4
cSt Vis. @ 40C	cSt	32.0	34.76	35.90

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	3.0	0.5	0.5
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PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	21/17/13	21/19/14	19/16/12
4 Micron & Larger	particles/ml	>5000	10,975	12,254	4,408
6 Micron & Larger	particles/ml	>2500	1,282	2,545	584
14 Micron & Larger	particles/ml	>160	60	88	23
21 Micron & Larger	particles/ml	>40	17	18	7
38 Micron & Larger	particles/ml	>10	1	1	1
70 Micron & Larger	particles/ml	>3	0	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	10	15	13
Iron (Fe)	ppm	<5	<5	<5
Lead (Pb)	ppm	6	10	7
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	59	73	71
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	467	517	517
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	550	617
Sulfur (S)	ppm	2,230	1,430	1,550

Customer Id: ENC0005J03
Sample No.: EN23120048
Lab Number: 23120048
Test Package: TEST



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To discuss the diagnosis or test data:

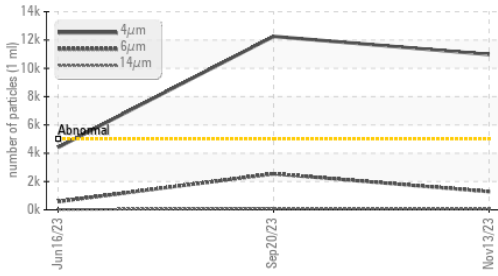
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To change component or sample information:

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OIL ANALYSIS REPORT

▲ Particle Trend



DR FERROGRAPHY READINGS

L		■ 12.5	■ 8.4	■ 4.7
S		■ 4.4	■ 1.5	■ 0.5
WPC	DL + DS	■ 16.9	■ 9.9	■ 5.2

CONTAMINATION

Water	>0.05	NEG	NEG	NEG
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Viscosity @ 40°C

