

LABORATORY ANALYSIS



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Department **MAQUINADOS 1**
Equipment No. **MA100 HYD CENTRO DE MAQUINADO (K-FLEX) (00013)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

DIAGNOSIS

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

Lab Number	New	2312-00057	2306-00801	---
Date of Sample	(Typical)	13 Nov 2023	16 Jun 2023	---
Oil Added		UNK	UNK	---
Last Drain Date		--	--	---
Last Filter Service		--	--	---
Sample Point		---	---	---
Sample Status		ABNORMAL	ATTENTION	---

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

SSU Vis. @ 100F	SSU	222.5	169.6	---
cSt Vis. @ 40C	cSt	32.0	43.10	32.80

COLOR (BASED ON ASTM D1500 STANDARDS)

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

ISO CODE	ISO 4406(c)	>19/18/14	20/17/13	20/18/13	---
4 Micron & Larger	particles/ml	>5000	8,217	7,903	---
6 Micron & Larger	particles/ml	>2500	1,252	1,358	---
14 Micron & Larger	particles/ml	>160	49	68	---
21 Micron & Larger	particles/ml	>40	13	20	---
38 Micron & Larger	particles/ml	>10	2	2	---
70 Micron & Larger	particles/ml	>3	0	0	---

ICP - OILS (REPORTED IN PARTS PER MILLION)

Aluminum (Al)	ppm	<5	<5	---
Antimony (Sb)	ppm	<5	<5	---
Cadmium (Cd)	ppm	<5	<5	---
Chromium (Cr)	ppm	<5	<5	---
Cobalt (Co)	ppm	<5	<5	---
Copper (Cu)	ppm	<5	<5	---
Iron (Fe)	ppm	<5	<5	---
Lead (Pb)	ppm	<5	<5	---
Manganese (Mn)	ppm	<5	<5	---
Molybdenum(Mo)	ppm	<5	<5	---
Nickel (Ni)	ppm	<5	<5	---
Silver (Ag)	ppm	<5	<5	---
Tin (Sn)	ppm	<5	<5	---
Titanium (Ti)	ppm	<5	<5	---
Vanadium (V)	ppm	<5	<5	---
Barium (Ba)	ppm	<5	<5	---
Boron (B)	ppm	<5	<5	---
Calcium (Ca)	ppm	68	90	---
Magnesium (Mg)	ppm	<5	<5	---
Phosphorus(P)	ppm	477	526	---
Silicon (Si)	ppm	<5	<5	---
Zinc (Zn)	ppm	668	544	665
Sulfur (S)	ppm	1,380	1,540	---

Customer Id: ENC0005J03
Sample No.: EN23120057
Lab Number: 23120057
Test Package: TEST



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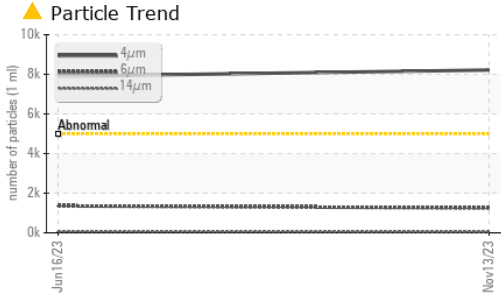
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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS				
L		■ 4.4	■ 5.2	---
S		■ 2.2	■ 1.8	---
WPC	DL + DS	■ 6.6	■ 7	---

CONTAMINATION				
Water	>0.05	NEG	NEG	---

