

LABORATORY ANALYSIS



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Department **MAQUINADOS 1**
Equipment No. **MA111 HYD HAAS ST-30 (00100)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

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	2312-00060	2310-00486	2306-00805
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		NORMAL	NORMAL	NORMAL

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

SSU Vis. @ 100F	SSU	165.5	158.5	159.4
cSt Vis. @ 40C	cSt	32.0	30.61	30.78

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	1.0	1.5	1.0

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	18/15/12	17/15/12	17/15/11
4 Micron & Larger	particles/ml	>5000	1,333	1,150	1,257
6 Micron & Larger	particles/ml	>2500	292	252	180
14 Micron & Larger	particles/ml	>160	31	27	13
21 Micron & Larger	particles/ml	>40	8	10	5
38 Micron & Larger	particles/ml	>10	1	1	0
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	12	10	8
Iron (Fe)	ppm	<5	<5	<5
Lead (Pb)	ppm	8	7	<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	69	72	73
Magnesium (Mg)	ppm	5	5	5
Phosphorus(P)	ppm	323	336	333
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	521	544
Sulfur (S)	ppm	616	568	667

Customer Id: ENC0005J03
Sample No.: EN23120060
Lab Number: 23120060
Test Package: TEST



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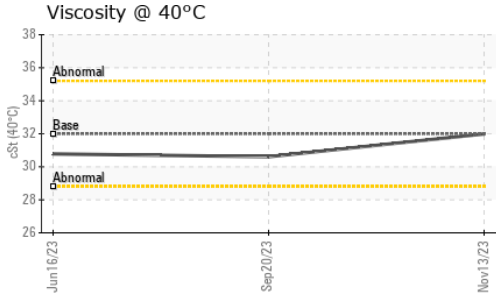
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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		■ 2.3	■ 0.7	■ 4.8
S		■ 0.6	■ 0.6	■ 0.1
WPC	DL + DS	■ 2.9	■ 1.3	■ 4.9

CONTAMINATION

Water	>0.05	NEG	NEG	NEG
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