

LABORATORY ANALYSIS



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Department **MAQUINADOS 1**
Equipment No. **MA001 HYD PUNTEADORA Mazak QTS-300 (00007)**
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. 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. 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	2312-00054	2310-00482	2306-00798
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	ATTENTION	ATTENTION

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

SSU Vis. @ 100F	SSU	202.6	180.3	166.7
cSt Vis. @ 40C	cSt	32.0	34.90	32.22

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	1.0	1.0	1.0
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PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	22/19/13	20/18/13	20/16/12
4 Micron & Larger	particles/ml	>5000	23,241	9,756	5,815
6 Micron & Larger	particles/ml	>2500	3,748	1,713	627
14 Micron & Larger	particles/ml	>160	43	55	25
21 Micron & Larger	particles/ml	>40	10	11	7
38 Micron & Larger	particles/ml	>10	2	0	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	<5	6	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	64	69	71
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	482	518	524
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	611	649
Sulfur (S)	ppm	1,660	1,460	1,570

Customer Id: ENC0005J03
Sample No.: EN23120054
Lab Number: 23120054
Test Package: TEST



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To discuss the diagnosis or test data:

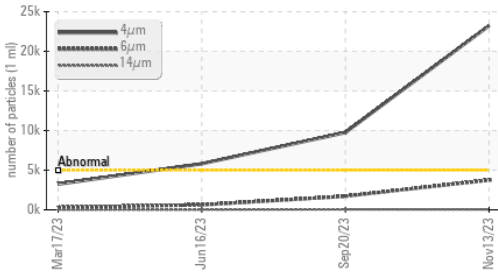
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To change component or sample information:

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OIL ANALYSIS REPORT

▲ Particle Trend



DR FERROGRAPHY READINGS

L		■ 6.3	■ 1.3	■ 2.0
S		■ 0.9	■ 0.6	■ 0.8
WPC	DL + DS	■ 7.2	■ 1.9	■ 2.8

CONTAMINATION

Water	>0.05	NEG	NEG	NEG
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Viscosity @ 40°C

