

LABORATORY ANALYSIS



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Department **MAQUINADOS 1**
Equipment No. **1030.9 HYD MAZAK DT-20 CNC LATHE (00015)**
System **Unknown Component**
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 sample. The condition of the sample is acceptable for the time in service.

SAMPLE INFORMATION

Lab Number	New	2312-00058	2310-00453	2306-00802
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		ATTENTION	ATTENTION	ABNORMAL

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

SSU Vis. @ 100F	SSU	181.5	165.5	174.0
cSt Vis. @ 40C	cSt	32.0	32.00	33.66

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	0.5	0.5	1.0

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	20/17/12	20/17/11	21/17/12
4 Micron & Larger	particles/ml	>5000	▲ 9,482	▲ 9,050	▲ 10,551
6 Micron & Larger	particles/ml	>2500	■ 1,095	■ 1,060	■ 915
14 Micron & Larger	particles/ml	>160	■ 39	■ 19	■ 31
21 Micron & Larger	particles/ml	>40	■ 10	■ 7	■ 10
38 Micron & Larger	particles/ml	>10	■ 1	■ 0	■ 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	■ <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	64	59	63
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	504	467	508
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	566	641
Sulfur (S)	ppm	1,520	1,170	1,670

Customer Id: ENC0005J03
Sample No.: EN23120058
Lab Number: 23120058
Test Package: TEST



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To discuss the diagnosis or test data:

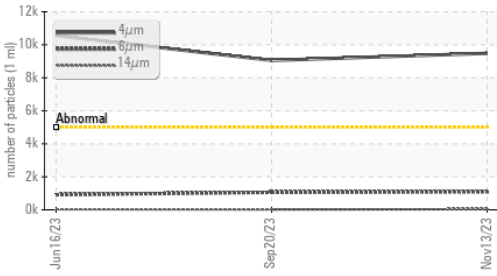
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To change component or sample information:

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OIL ANALYSIS REPORT

▲ Particle Trend



DR FERROGRAPHY READINGS

L		4.8	5.5	8.4
S		0.2	2.3	0.8
WPC	DL + DS	5	7.8	9.2

CONTAMINATION

Water	NEG	NEG	NEG
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Viscosity @ 40°C

