

LABORATORY ANALYSIS



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Department **LIGHTING**
Equipment No. **1018.9 CNC LATHE HANDLOAD (MAZAK CNC T32 LATHE) (00003)**
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. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

Lab Number	New	2312-00062	2310-00447	---
Date of Sample	(Typical)	13 Nov 2023	20 Sep 2023	---
Oil Added		UNK	UNK	---
Last Drain Date		--	--	---
Last Filter Service		--	--	---
Sample Point		---	---	---
Sample Status		ABNORMAL	NORMAL	---

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

SSU Vis. @ 100F	SSU	164.7	164.7	---
cSt Vis. @ 40C	cSt	32.0	31.82	31.83

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	21/19/14	18/16/12	---
4 Micron & Larger	particles/ml	>5000	▲ 18,683	2,144	---
6 Micron & Larger	particles/ml	>2500	▲ 3,334	384	---
14 Micron & Larger	particles/ml	>160	■ 129	26	---
21 Micron & Larger	particles/ml	>40	■ 30	9	---
38 Micron & Larger	particles/ml	>10	■ 1	1	---
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	■ 9	7	---
Iron (Fe)	ppm	■ <5	<5	---
Lead (Pb)	ppm	6	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	82	82	---
Magnesium (Mg)	ppm	<5	<5	---
Phosphorus(P)	ppm	482	489	---
Silicon (Si)	ppm	<5	<5	---
Zinc (Zn)	ppm	668	■ 580	586
Sulfur (S)	ppm	1,460	1,330	---

Customer Id: ENC0005J03
Sample No.: EN23120062
Lab Number: 23120062
Test Package: TEST



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To discuss the diagnosis or test data:

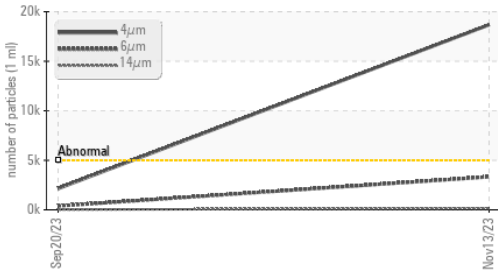
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OIL ANALYSIS REPORT

▲ Particle Trend



DR FERROGRAPHY READINGS

L		■ 3.5	■ 2.9	---
S		■ 1.3	■ 0.6	---
WPC	DL + DS	■ 4.8	■ 3.5	---

CONTAMINATION

Water	>0.05	NEG	NEG	---
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Viscosity @ 40°C

