

LABORATORY ANALYSIS



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Department **MAQUINADOS 1**
Equipment No. **1030.9 HYD MAZAK DT-20 CNC LATHE (00015)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

DIAGNOSIS

We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. 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. Zinc (Zn) ppm levels are severely low. cSt Vis. @ 40C is severely high. Viscosity of sample indicates oil is within ISO 68 range, advise investigate.

SAMPLE INFORMATION

Lab Number	New	2312-00021	2310-00441	2306-00762
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		SEVERE	ABNORMAL	ABNORMAL

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

SSU Vis. @ 100F	SSU	372.9	284.5	166.4
cSt Vis. @ 40C	cSt	32.0	55.01	32.17

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	RED	1.0	0.5

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	20/17/12	18/16/12	21/20/16
4 Micron & Larger	particles/ml	>5000	7,655	1,809	19,319
6 Micron & Larger	particles/ml	>2500	1,184	346	6,132
14 Micron & Larger	particles/ml	>160	31	22	411
21 Micron & Larger	particles/ml	>40	8	5	105
38 Micron & Larger	particles/ml	>10	1	0	5
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	6	<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	11	<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	13	58	65
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	306	472	533
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	165	555
Sulfur (S)	ppm	530	1,410	1,530

Customer Id: ENC0005J03
Sample No.: EN23120021
Lab Number: 23120021
Test Package: TEST



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To discuss the diagnosis or test data:

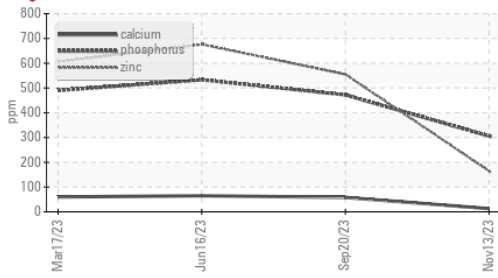
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To change component or sample information:

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OIL ANALYSIS REPORT

Additives



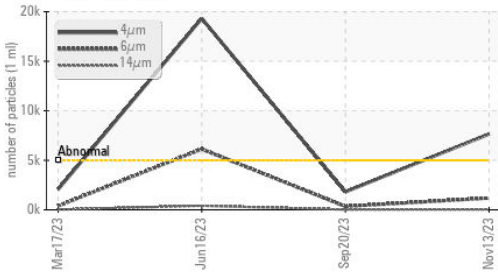
DR FERROGRAPHY READINGS

L		■ 4.2	■ 5.2	■ 14.0
S		■ 1.8	■ 0.8	■ 2.4
WPC	DL + DS	■ 6	■ 6	■ 16.4

CONTAMINATION

Water	>0.05	NEG	NEG	NEG
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▲ Particle Trend



Viscosity @ 40°C

