

LABORATORY ANALYSIS



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Department **MAQUINADO 2**
Equipment No. **4206.0 HYD MAZAK NC VERT. LATHE IVS200(IVS 200 VERTICAL) (00044)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

DIAGNOSIS

We recommend you service the filters on this component. 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	2312-00028	2310-00463	2306-00768
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	SEVERE	ABNORMAL

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

SSU Vis. @ 100F	SSU	277.2	279.6	285.1
cSt Vis. @ 40C	cSt	32.0	54.07	55.13

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	21/19/13	19/16/11	21/18/12
4 Micron & Larger	particles/ml	>5000	▲ 18,690	■ 3,674	▲ 13,633
6 Micron & Larger	particles/ml	>2500	▲ 2,579	■ 412	■ 1,492
14 Micron & Larger	particles/ml	>160	■ 58	■ 14	■ 30
21 Micron & Larger	particles/ml	>40	■ 12	■ 3	■ 7
38 Micron & Larger	particles/ml	>10	■ 0	■ 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	■ 10	■ 10	■ 7
Iron (Fe)	ppm	■ 5	■ 5	■ <5
Lead (Pb)	ppm	6	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	42	45	48
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	449	478	509
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	■ 503	■ 531
Sulfur (S)	ppm	1,380	1,460	1,670

Customer Id: ENC0005J03
Sample No.: EN23120028
Lab Number: 23120028
Test Package: TEST



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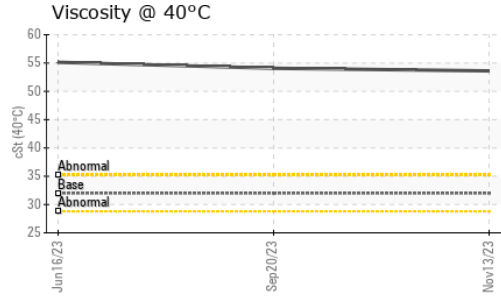
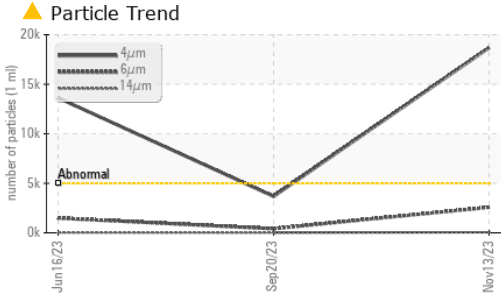
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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		■ 15.6	◆ 35.1	■ 10.3
S		■ 4.1	■ 7.1	■ 3.7
WPC	DL + DS	■ 19.7	▲ 42.2	■ 14

CONTAMINATION

Water	>0.05	NEG	NEG	NEG
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