

LABORATORY ANALYSIS



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Department **MAQUINADOS 1**
Equipment No. **1032.9 HYD CENTRO DE MAQUINADO (MAZAK QTN-200II LATHE) (00004)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

DIAGNOSIS

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. The viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

Lab Number	New	2312-00064	2306-00807	---
Date of Sample	(Typical)	13 Nov 2023	16 Jun 2023	---
Oil Added		UNK	UNK	---
Last Drain Date		--	--	---
Last Filter Service		--	--	---
Sample Point		---	---	---
Sample Status		ABNORMAL	ABNORMAL	---

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

SSU Vis. @ 100F	SSU	190.2	191.2	---
cSt Vis. @ 40C	cSt	32.0	36.83	37.04

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	1.5	1.5	---
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PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	20/17/12	20/16/12	---
4 Micron & Larger	particles/ml	>5000	9,723	5,468	---
6 Micron & Larger	particles/ml	>2500	832	577	---
14 Micron & Larger	particles/ml	>160	32	36	---
21 Micron & Larger	particles/ml	>40	8	7	---
38 Micron & Larger	particles/ml	>10	0	0	---
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	<5	<5	---
Iron (Fe)	ppm	<5	<5	---
Lead (Pb)	ppm	<5	<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	65	67	---
Magnesium (Mg)	ppm	<5	<5	---
Phosphorus(P)	ppm	477	502	---
Silicon (Si)	ppm	<5	<5	---
Zinc (Zn)	ppm	668	551	605
Sulfur (S)	ppm	1,660	1,830	---

Customer Id: ENC0005J03
Sample No.: EN23120064
Lab Number: 23120064
Test Package: TEST



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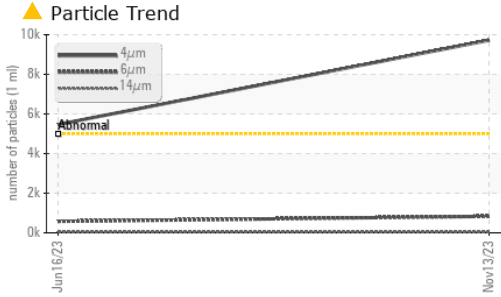
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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		█ 12.8	█ 5.1	---
S		█ 4.5	█ 2.3	---
WPC	DL + DS	█ 17.3	█ 7.4	---

CONTAMINATION

Water	>0.05	NEG	NEG	---
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