

LABORATORY ANALYSIS



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Department **MAQUINADOS 1**
Equipment No. **4102.0 HYD CNC LATHE OKUMA (OKUMA 4 AXIS LU15 CNC LATHE) (00006)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 115 INDUSTRIAL OIL (--- LTR)**

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. The viscosity is very high and is no longer within acceptable limits. Viscosity of sample indicates oil is within ISO 68 range, advise investigate.

SAMPLE INFORMATION

Lab Number	New	2312-00063	2306-00806	---
Date of Sample	(Typical)	13 Nov 2023	16 Jun 2023	---
Oil Added		UNK	UNK	---
Last Drain Date		--	---	---
Last Filter Service		--	---	---
Sample Point		---	---	---
Sample Status		SEVERE	NORMAL	---

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

SSU Vis. @ 100F	SSU	409.4	165.0	---
cSt Vis. @ 40C	cSt	32	31.90	---

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	RED	0.5	---
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PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>20/18/15	22/19/12	20/16/12	---
4 Micron & Larger	particles/ml	>10000	▲ 20,383	■ 7,159	---
6 Micron & Larger	particles/ml	>2500	▲ 2,560	■ 516	---
14 Micron & Larger	particles/ml	>320	■ 40	■ 28	---
21 Micron & Larger	particles/ml	>80	■ 9	■ 7	---
38 Micron & Larger	particles/ml	>20	■ 0	■ 1	---
70 Micron & Larger	particles/ml	>4	■ 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	■ 22	■ 6	---
Iron (Fe)	ppm	■ <5	■ <5	---
Lead (Pb)	ppm	13	<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	11	86	---
Magnesium (Mg)	ppm	<5	<5	---
Phosphorus(P)	ppm	272	512	---
Silicon (Si)	ppm	<5	<5	---
Zinc (Zn)	ppm	95	642	---
Sulfur (S)	ppm	310	1,530	---

Customer Id: ENC0005J03
Sample No.: EN23120063
Lab Number: 23120063
Test Package: TEST



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To discuss the diagnosis or test data:

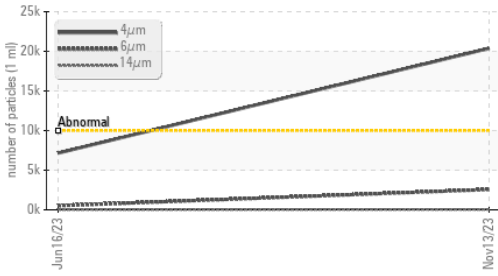
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OIL ANALYSIS REPORT

▲ Particle Trend



DR FERROGRAPHY READINGS

L		■ 7.4	■ 1.8	---
S		■ 2.8	■ 0.6	---
WPC	DL + DS	■ 10.2	■ 2.4	---

CONTAMINATION

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

