

LABORATORY ANALYSIS



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Department **MAQUINADO 2**
Equipment No. **4207.0 HYD TORNO TIPO REVOLVER (IVS 200 VERTICAL LATHE) (00046)**
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. L, s and wpc levels are abnormal. 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 no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

Lab Number	New	2312-00031	2310-00470	2306-00771
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		ABNORMAL	ABNORMAL	SEVERE

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

SSU Vis. @ 100F	SSU	158.3	149.7	155.7
cSt Vis. @ 40C	cSt	32.0	28.92	30.06

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	1.0	1.0	1.0

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	22/18/13	21/17/12	24/20/13
4 Micron & Larger	particles/ml	>5000	▲ 23,855	▲ 14,805	● 81,868
6 Micron & Larger	particles/ml	>2500	■ 1,992	■ 815	▲ 8,634
14 Micron & Larger	particles/ml	>160	■ 51	■ 23	■ 44
21 Micron & Larger	particles/ml	>40	■ 10	■ 6	■ 9
38 Micron & Larger	particles/ml	>10	■ 1	■ 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	■ 8	■ 8	■ 5	
Iron (Fe)	ppm	■ 9	■ 7	■ 6	
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	<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	6	<5	<5	
Calcium (Ca)	ppm	75	69	73	
Magnesium (Mg)	ppm	<5	<5	<5	
Phosphorus(P)	ppm	451	479	494	
Silicon (Si)	ppm	<5	<5	<5	
Zinc (Zn)	ppm	668	■ 511	■ 522	■ 603
Sulfur (S)	ppm	1,300	1,350	1,500	

Customer Id: ENC0005J03
Sample No.: EN23120031
Lab Number: 23120031
Test Package: TEST



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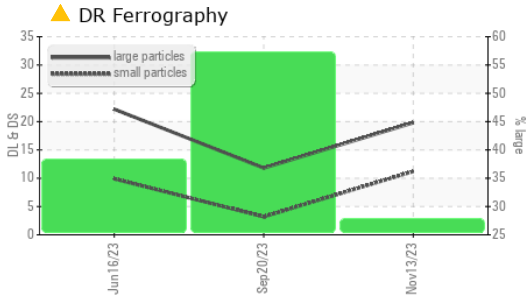
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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		▲ 19.8	■ 11.8	▲ 22.2
S		▲ 11.2	■ 3.2	▲ 9.9
WPC	DL + DS	▲ 31	■ 15	▲ 32.1

CONTAMINATION

Water	>0.05	NEG	NEG	NEG
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