

# LABORATORY ANALYSIS



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Department **TRANSFER ATIZAPAN**  
Equipment No. **296 8405.3 MAQUINA HIDROMAT (00005)**  
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. 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. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

Lab Number	New	<b>2312-00067</b>	2310-00448	---
Date of Sample	(Typical)	<b>13 Nov 2023</b>	20 Sep 2023	---
Oil Added		<b>UNK</b>	UNK	---
Last Drain Date		--	--	---
Last Filter Service		--	--	---
Sample Point		---	---	---
Sample Status		<b>ABNORMAL</b>	ABNORMAL	---

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

SSU Vis. @ 100F	SSU	<b>253.0</b>	238.0	---
cSt Vis. @ 40C	cSt	32.0	<b>48.97</b>	46.10

## COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	<b>0.5</b>	1.0	---
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## PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	<b>20/17/13</b>	21/17/12	---
4 Micron & Larger	particles/ml	>5000	<b>7,838</b>	10,041	---
6 Micron & Larger	particles/ml	>2500	<b>1,059</b>	815	---
14 Micron & Larger	particles/ml	>160	<b>72</b>	34	---
21 Micron & Larger	particles/ml	>40	<b>29</b>	15	---
38 Micron & Larger	particles/ml	>10	<b>3</b>	1	---
70 Micron & Larger	particles/ml	>3	<b>0</b>	0	---

## ICP - OILS (REPORTED IN PARTS PER MILLION)

Aluminum (Al)	ppm	<b>&lt;5</b>	<5	---
Antimony (Sb)	ppm	<b>&lt;5</b>	<5	---
Cadmium (Cd)	ppm	<b>&lt;5</b>	<5	---
Chromium (Cr)	ppm	<b>&lt;5</b>	<5	---
Cobalt (Co)	ppm	<b>&lt;5</b>	<5	---
Copper (Cu)	ppm	<b>9</b>	9	---
Iron (Fe)	ppm	<b>&lt;5</b>	<5	---
Lead (Pb)	ppm	<b>20</b>	20	---
Manganese (Mn)	ppm	<b>&lt;5</b>	<5	---
Molybdenum(Mo)	ppm	<b>&lt;5</b>	<5	---
Nickel (Ni)	ppm	<b>&lt;5</b>	<5	---
Silver (Ag)	ppm	<b>&lt;5</b>	<5	---
Tin (Sn)	ppm	<b>&lt;5</b>	<5	---
Titanium (Ti)	ppm	<b>&lt;5</b>	<5	---
Vanadium (V)	ppm	<b>&lt;5</b>	<5	---
Barium (Ba)	ppm	<b>&lt;5</b>	<5	---
Boron (B)	ppm	<b>&lt;5</b>	<5	---
Calcium (Ca)	ppm	<b>51</b>	55	---
Magnesium (Mg)	ppm	<b>&lt;5</b>	<5	---
Phosphorus(P)	ppm	<b>431</b>	448	---
Silicon (Si)	ppm	<b>&lt;5</b>	<5	---
Zinc (Zn)	ppm	668	<b>504</b>	548
Sulfur (S)	ppm	<b>1,790</b>	1,840	---

Customer Id: ENC0005J03  
Sample No.: EN23120067  
Lab Number: 23120067  
Test Package: TEST



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To discuss the diagnosis or test data:

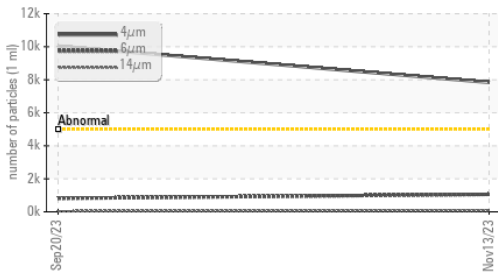
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# OIL ANALYSIS REPORT

### ▲ Particle Trend



### DR FERROGRAPHY READINGS

L		■ 6.5	■ 3.4	---
S		■ 1.5	■ 1.6	---
WPC	DL + DS	■ 8	■ 5	---

### CONTAMINATION

Water	>0.05	<b>NEG</b>	NEG	---
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### Viscosity @ 40°C

