

# LABORATORY ANALYSIS



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Department **MAQUINADOS 1**  
Equipment No. **MA111 HYD HAAS ST-30 (00100)**  
System **Hydraulic System**  
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

## DIAGNOSIS

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the oil. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

Lab Number	New	<b>2310-00486</b>	2306-00805	---
Date of Sample	(Typical)	<b>20 Sep 2023</b>	16 Jun 2023	---
Oil Added		<b>UNK</b>	UNK	---
Last Drain Date		--	--	---
Last Filter Service		--	--	---
Sample Point		---	---	---
Sample Status		<b>NORMAL</b>	NORMAL	---

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

SSU Vis. @ 100F	SSU	<b>158.5</b>	159.4	---
cSt Vis. @ 40C	cSt	32.0	<b>30.61</b>	30.78

## COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	<b>1.5</b>	1.0	---
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## PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	<b>17/15/12</b>	17/15/11	---
4 Micron & Larger	particles/ml	>5000	<b>1,150</b>	1,257	---
6 Micron & Larger	particles/ml	>2500	<b>252</b>	180	---
14 Micron & Larger	particles/ml	>160	<b>27</b>	13	---
21 Micron & Larger	particles/ml	>40	<b>10</b>	5	---
38 Micron & Larger	particles/ml	>10	<b>1</b>	0	---
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>10</b>	8	---
Iron (Fe)	ppm	<b>&lt;5</b>	<5	---
Lead (Pb)	ppm	<b>7</b>	<5	---
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>72</b>	73	---
Magnesium (Mg)	ppm	<b>5</b>	5	---
Phosphorus(P)	ppm	<b>336</b>	333	---
Silicon (Si)	ppm	<b>&lt;5</b>	<5	---
Zinc (Zn)	ppm	668	<b>544</b>	564
Sulfur (S)	ppm	<b>568</b>	667	---

Customer Id: ENC0005J03  
Sample No.: EN23100486  
Lab Number: 23100486  
Test Package: TEST



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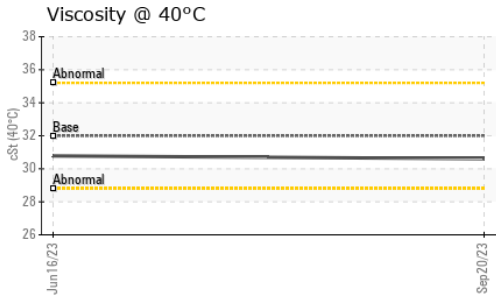
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# OIL ANALYSIS REPORT



## DR FERROGRAPHY READINGS

L		█ 0.7	█ 4.8	---
S		█ 0.6	█ 0.1	---
WPC	DL + DS	█ 1.3	█ 4.9	---

## CONTAMINATION

Water	>0.05	<b>NEG</b>	NEG	---
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