

LABORATORY ANALYSIS



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Department **GRIS**
Equipment No. **MA 112 (00101)**
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. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

Lab Number	New	2312-00061	2310-00446	---
Date of Sample	(Typical)	13 Nov 2023	20 Sep 2023	---
Oil Added		UNK	UNK	---
Last Drain Date		--	--	---
Last Filter Service		--	--	---
Sample Point		---	---	---
Sample Status		ATTENTION	ABNORMAL	---

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

SSU Vis. @ 100F	SSU	162.0	161.6	---
cSt Vis. @ 40C	cSt	32.0	31.31	31.22

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	1.0	1.0	---
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PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	20/16/12	21/17/11	---
4 Micron & Larger	particles/ml	>5000	▲ 5,708	▲ 12,110	---
6 Micron & Larger	particles/ml	>2500	■ 627	■ 1,300	---
14 Micron & Larger	particles/ml	>160	■ 22	■ 18	---
21 Micron & Larger	particles/ml	>40	■ 7	■ 5	---
38 Micron & Larger	particles/ml	>10	■ 1	■ 1	---
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	■ 15	■ 13	---
Iron (Fe)	ppm	■ <5	■ <5	---
Lead (Pb)	ppm	9	8	---
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	73	74	---
Magnesium (Mg)	ppm	<5	<5	---
Phosphorus(P)	ppm	331	335	---
Silicon (Si)	ppm	<5	<5	---
Zinc (Zn)	ppm	668	■ 525	■ 527
Sulfur (S)	ppm	746	641	---

Customer Id: ENC0005J03
Sample No.: EN23120061
Lab Number: 23120061
Test Package: TEST



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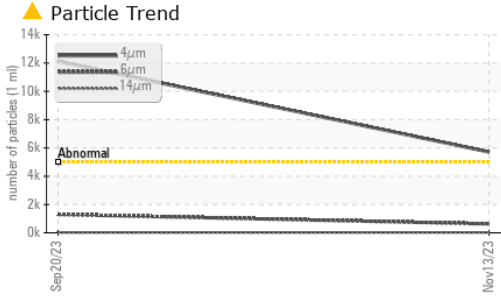
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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		■ 0.8	■ 2.8	---
S		■ 0.5	■ 0.7	---
WPC	DL + DS	■ 1.3	■ 3.5	---

CONTAMINATION

Water	>0.05	NEG	NEG	---
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