

LABORATORY ANALYSIS



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Department **NC**
Equipment No. **2034 (00058)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

Diagnosis

All attributes of this oil are within acceptable limits. Continue use of oil and filter element at this time. 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	2406-00869	2404-00142	2301-00194
Date of Sample	(Typical)	25 Jun 2024	03 Apr 2024	04 Jan 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		ABNORMAL	NORMAL	NORMAL

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

SSU Vis. @ 100F	SSU	141.8	141.5	156.1
cSt Vis. @ 40C	cSt	32.0	27.30	30.13

% WATER - KARL FISCHER (ASTM E203)

% Water (KF)	%	0.018	---	---
ppm Water (KF)	ppm	180	---	---

COLOR (BASED ON ASTM D1500 STANDARDS)

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

ISO CODE	ISO 4406(c)	>19/18/14	16/14/10	19/17/13	17/15/11
4 Micron & Larger	particles/ml	>5000	507	3,908	1,176
6 Micron & Larger	particles/ml	>2500	85	706	194
14 Micron & Larger	particles/ml	>160	6	50	14
21 Micron & Larger	particles/ml	>40	1	11	4
38 Micron & Larger	particles/ml	>10	0	1	0
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	5	<5	<5
Iron (Fe)	ppm	5	5	<5
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	<5	<5	<5
Calcium (Ca)	ppm	81	80	95
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	463	456	519
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	668	524	626
Sulfur (S)	ppm	1,390	1,260	1,450

Customer Id: BACSTL
Sample No.: EN24060869
Lab Number: 24060869
Test Package: TEST



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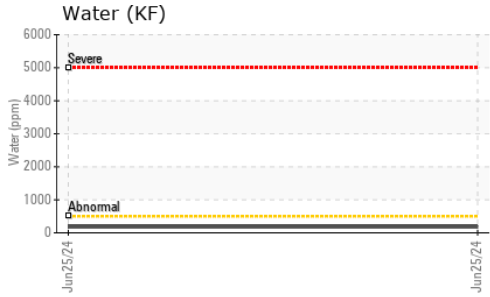
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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		■ 1.2	■ 2.2	■ 1.9
S		■ 0.1	■ 1.9	■ 0.6
WPC	DL + DS	■ 1.3	■ 4.1	■ 2.5

