

LABORATORY ANALYSIS



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Department **CONSOLIDATED**
Equipment No. **SM-1716 HYDRAULIC DRILL TABLE #002**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 25-AW (100 GAL)**

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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	2404-00212	2312-00922	2308-00082
Date of Sample	(Typical)	04 Apr 2024	20 Dec 2023	02 Aug 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		NORMAL	ABNORMAL	SEVERE

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

SSU Vis. @ 100F	SSU	246.8	228.2	203.1
cSt Vis. @ 40C	cSt	56	47.79	44.21

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	4.5	4.5	4.0
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PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/17/14	17/15/12	17/15/11	16/14/11
4 Micron & Larger	particles/ml	>5000	859	753	344
6 Micron & Larger	particles/ml	>1300	235	227	120
14 Micron & Larger	particles/ml	>160	21	19	13
21 Micron & Larger	particles/ml	>40	5	3	5
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	6	7
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	80	69	75
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	532	462	489
Silicon (Si)	ppm	<5	5	<5
Zinc (Zn)	ppm	668	486	517
Sulfur (S)	ppm	1545	1,280	1,380

Customer Id: ENC0011601
Sample No.: EN0000789
Lab Number: 24040212
Test Package: TEST



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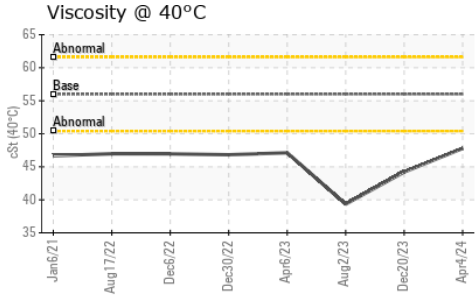
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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		■ 2.7	■ 1.9	■ 1.9
S		■ 1.5	■ 1.6	■ 0.5
WPC	DL + DS	■ 4.2	■ 3.5	■ 2.4

Contamination

Water	>0.05	NEG	NEG	NEG
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