

LABORATORY ANALYSIS



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Department **WINDING**
Equipment No. **BLOC01 FLOW-THRU BLOCKER-ISE1 (00227)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 20-AW (60 GAL)**

Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. L, % large particles and severity index levels are abnormal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sample Information

Lab Number	New	2405-00177	2312-00787	2308-01111
Date of Sample	(Typical)	28 Apr 2024	14 Dec 2023	14 Aug 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		ABNORMAL	ABNORMAL	SEVERE

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

SSU Vis. @ 100F	SSU	229.9	228.6	228.8
cSt Vis. @ 40C	cSt	46	44.29	44.32

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	1.0	1.0	1.0

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	22/20/13	19/17/13	22/19/15
4 Micron & Larger	particles/ml	>5000	▲ 27,718	3,339	▲ 25,648
6 Micron & Larger	particles/ml	>2500	▲ 5,534	770	● 4,286
14 Micron & Larger	particles/ml	>160	■ 80	68	● 288
21 Micron & Larger	particles/ml	>40	■ 12	20	▲ 89
38 Micron & Larger	particles/ml	>10	■ 0	1	■ 9
70 Micron & Larger	particles/ml	>3	■ 0	0	3

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	82	79
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	516	526	501
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	715	■ 591	■ 588
Sulfur (S)	ppm	1,720	1,710	1,580

Customer Id: MOTMCA
Sample No.: EN24050177
Lab Number: 24050177
Test Package: TEST

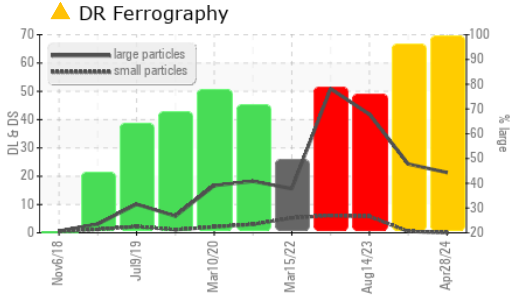


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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		▲ 21.3	▲ 24.3	▲ 41.9
S		■ 0.1	■ 0.5	■ 5.8
WPC	DL + DS	■ 21.4	■ 24.8	▲ 47.7

Contamination

Water	>0.05	NEG	NEG	NEG
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