

LABORATORY ANALYSIS



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Department **REYLAM-PRESS**
 Equipment No. **STRSC03 LEVELER (SCROLL LINE 3) (00076)**
 System **Transmission**
 Oil Type **ENGINEERED LUBRICANTS ENLUBE 85-EP GEAR OIL (--- GAL)**

COPELAND (MHDS)
 6001 S. 35TH STREET, SUITE D"
 REYNOSA, ZZ
 US
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 T:
 F:

Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the fluid from the component if this has not already been done. We recommend an early resample to monitor this condition. Iron (Fe) ppm levels are abnormal. Gear wear is indicated. There is a high concentration of water present in the fluid. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

Sample Information

Lab Number	New	2404-00890	2401-00767	2310-00812
Date of Sample	(Typical)	05 Apr 2024	19 Jan 2024	10 Oct 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Months on Sample		227.7	225.3	222.0
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		SEVERE	ABNORMAL	ABNORMAL

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

SSU Vis. @ 100F	SSU	261.0	827.8	1,117.6
cSt Vis. @ 40C	cSt	220	▲ 157.5	■ 211.5

% WATER - KARL FISCHER (ASTM E203)

% Water (KF)	%	▲ 4.74	NEG	NEG
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PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>23/22/16	21/17/13	24/22/18	22/21/17
4 Micron & Larger	particles/ml	>80000	■ 15,049	● 99,968	■ 32,519
6 Micron & Larger	particles/ml	>40000	■ 1,041	■ 38,097	■ 16,617
14 Micron & Larger	particles/ml	>640	■ 41	▲ 2,111	▲ 1,026
21 Micron & Larger	particles/ml	>160	■ 14	● 296	▲ 163
38 Micron & Larger	particles/ml	>40	■ 1	■ 2	■ 0
70 Micron & Larger	particles/ml	>10	■ 0	■ 0	■ 0

ICP - OILS (REPORTED IN PARTS PER MILLION)

Element	Unit	<5	<5	<5
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	■ 12	■ <5	■ <5
Iron (Fe)	ppm	▲ 69	■ <5	■ <5
Lead (Pb)	ppm	9	<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	11	<5	<5
Calcium (Ca)	ppm	45	16	<5
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	234	■ 460	■ 328
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	458	134	<5
Sulfur (S)	ppm	1,750	2,540	3,380

Customer Id: MOTMCA
 Sample No.: EN24040890
 Lab Number: 24040890
 Test Package: TEST



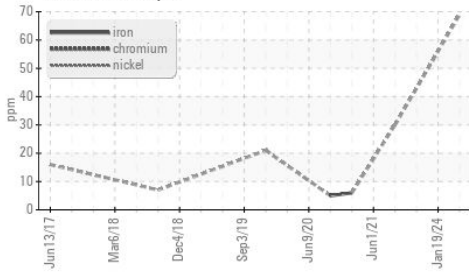
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OIL ANALYSIS REPORT

▲ Ferrous Alloys



DR FERROGRAPHY READINGS

L		■ 31.1	■ 14.6	■ 6.0
S		■ 25.1	■ 5.8	■ 1.9
WPC	DL + DS	■ 56.2	■ 20.4	■ 7.9

Water (KF)



Viscosity @ 40°C

