

# LABORATORY ANALYSIS



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Department **REYLAM-PRESS**  
 Equipment No. **STRSC01 LEVELER (SCROLL LINE 1) (00060)**  
 System **Gearbox**  
 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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## 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 oil. 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 oil is no longer serviceable as a result of the abnormal and/or severe wear.

## Sample Information

Lab Number	New	2404-00866	2401-00755	2310-00786
Date of Sample	(Typical)	05 Apr 2024	19 Jan 2024	10 Oct 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Months on Sample		269.7	267.2	264.0
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		SEVERE	ABNORMAL	ABNORMAL

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

SSU Vis. @ 100F	SSU	261.9	849.5	1,123.4
cSt Vis. @ 40C	cSt	220	161.6	212.6

## % WATER - KARL FISCHER (ASTM E203)

% Water (KF)	%	2.42	NEG	NEG

## PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>23/22/16	21/17/11	24/22/19	22/21/17
4 Micron & Larger	particles/ml	>80000	11,864	87,812	38,760
6 Micron & Larger	particles/ml	>40000	707	39,054	19,287
14 Micron & Larger	particles/ml	>640	19	2,685	1,249
21 Micron & Larger	particles/ml	>160	4	416	211
38 Micron & Larger	particles/ml	>40	0	5	2
70 Micron & Larger	particles/ml	>10	0	1	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	71	<5	<5
Lead (Pb)	ppm	9	<5	<5
Manganese (Mn)	ppm	6	<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	9	<5	<5
Calcium (Ca)	ppm	44	13	<5
Magnesium (Mg)	ppm	<5	<5	<5
Phosphorus(P)	ppm	234	321	254
Silicon (Si)	ppm	<5	<5	<5
Zinc (Zn)	ppm	462	118	<5
Sulfur (S)	ppm	1,680	2,600	2,680

Customer Id: MOTMCA  
 Sample No.: EN24040866  
 Lab Number: 24040866  
 Test Package: TEST



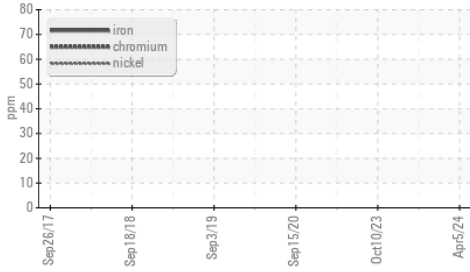
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# OIL ANALYSIS REPORT

### ▲ Ferrous Alloys



### DR FERROGRAPHY READINGS

L		■ 30.3	■ 18.5	■ 1.6
S		■ 24.3	■ 9.1	■ 1.4
WPC	DL + DS	■ 54.6	■ 27.6	■ 3

### Water (KF)



### Viscosity @ 40°C

