LABORATORY ANALYSIS

ENGINEERED LUBRICANTS
11525 Rock Island Court, St. Louis, MO 63043
Tel: 1-800-876-0008 info@englube.com

Department **REYLAM-PRESS**

Equipment No. **STRSC02 LEVELER (SCROLL LINE 2) (00067)**

System **Transmission**

Oil Type **ENGINEERED LUBRICANTS ENLUBE 85-EP GEAR OIL (--- GAL)**

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

Diagnosis

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. Fill with ENLUBE 85-EP.Iron (Fe) ppm levels are abnormal. Gear wear is indicated. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the fluid. The system and fluid cleanliness is acceptable. 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	**2404-00879**	2401-00762	2310-00799
Date of Sample		(Typical)	**05 Apr 2024**	19 Jan 2024	10 Oct 2023
Oil Added			**UNK**	UNK	UNK
Last Drain Date			**--**	--	--
Months on Sample			**221.2**	218.7	215.5
Last Filter Service			**--**	--	--
Sample Point			**---**	---	---
Sample Status			**SEVERE**	ABNORMAL	ABNORMAL

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

SSU Vis. @ 100F	SSU		**261.0**	848.5	1,121.8
cSt Vis. @ 40C	cSt	220	▲ **50.51**	▲ 161.4	■ 212.3

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>23/22/16	**21/17/12**	24/22/18	22/21/18
4 Micron & Larger	particles/1ml	>80000	■ **15,471**	● 90,871	■ 34,602
6 Micron & Larger	particles/1ml	>40000	■ **970**	■ 33,787	■ 18,366
14 Micron & Larger	particles/1ml	>640	■ **21**	▲ 2,001	▲ 1,559
21 Micron & Larger	particles/1ml	>160	■ **3**	● 284	▲ 324
38 Micron & Larger	particles/1ml	>40	■ **0**	■ 2	■ 6
70 Micron & Larger	particles/1ml	>10	■ **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		■ **12**	■ <5	■ <5
Iron (Fe)	ppm		▲ **75**	■ <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		**47**	14	<5
Magnesium (Mg)	ppm		**<5**	<5	<5
Phosphorus(P)	ppm	234	■ **486**	■ 319	■ 256
Silicon (Si)	ppm		**<5**	<5	<5
Zinc (Zn)	ppm		**491**	118	<5
Sulfur (S)	ppm		**1,750**	2,570	2,740

DR FERROGRAPHY READINGS

L			■ **25.7**	■ 13.3	■ 6.8
S			■ **22.8**	■ 3.0	■ 0.8
WPC	DL + DS		■ **48.5**	■ 16.3	■ 7.6

Customer Id: MOTMCA
Sample No.: EN24040879
Lab Number: 24040879
Test Package: TEST

To manage this report scan the QR code

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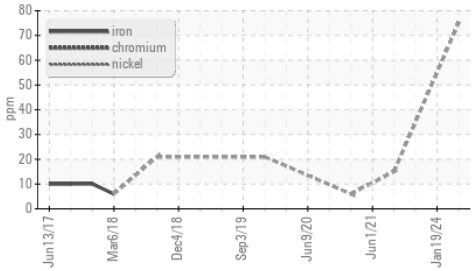
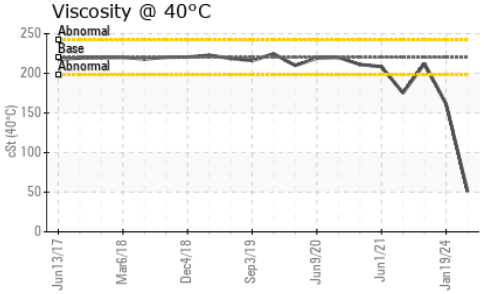
OIL ANALYSIS REPORT

Ferrous Alloys



Viscosity @ 40°C



Contamination				
Water	>0.1	**NEG**	NEG	NEG