

LABORATORY ANALYSIS



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

Department **REYLAM-PRESS**
 Equipment No. **PRESS21 LAM PRESS #21 (00142)**
 System **Oil**
 Oil Type **ENGINEERED LUBRICANTS ENLUBE HVI-344 EP GEAR OIL (--- GAL)**

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

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. Copper (Cu) ppm levels are noted. All other component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The condition of the oil is acceptable for the time in service.

Sample Information

Lab Number	New	2404-00860	2401-00703	2310-00780
Date of Sample	(Typical)	05 Apr 2024	19 Jan 2024	10 Oct 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Months on Sample		173.4	171.0	167.7
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		ATTENTION	ABNORMAL	NORMAL

VISCOSITY INDEX (ASTM D445)

cSt Vis. @ 40C	cSt	68	70.08	71.50	68.80
SSU Vis. @ 100F	SSU		325.2	331.7	319.3
cSt Vis. @ 100C	cSt		9.311	9.443	9.18
SSU Vis. @ 210F	SSU		56.9	57.3	56.39
cSt Vis. @ 40C	cSt	68	70.08	71.50	68.80
SSU Vis. @ 40C	SSU		325.2	331.7	319.3
cSt Vis. @ 100C	cSt		9.311	9.443	9.18
SSU Vis. @ 100C	SSU		56.9	57.3	56.39
Viscosity Index			110	110	109

PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>22/20/13	22/18/14	21/18/15	21/17/13
4 Micron & Larger	particles/ml	>40000	22,534	10,998	13,859
6 Micron & Larger	particles/ml	>10000	1,594	2,255	1,220
14 Micron & Larger	particles/ml	>80	94	206	66
21 Micron & Larger	particles/ml	>20	14	56	18
38 Micron & Larger	particles/ml	>4	0	4	2
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		19	9	20
Iron (Fe)	ppm		8	5	6
Lead (Pb)	ppm		13	6	13
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		10	7	9
Magnesium (Mg)	ppm		<5	<5	<5
Phosphorus(P)	ppm	234	356	326	263
Silicon (Si)	ppm		<5	<5	<5
Zinc (Zn)	ppm		21	12	10
Sulfur (S)	ppm		2,610	2,520	1,850

Customer Id: MOTMCA
 Sample No.: EN24040860
 Lab Number: 24040860
 Test Package: TEST

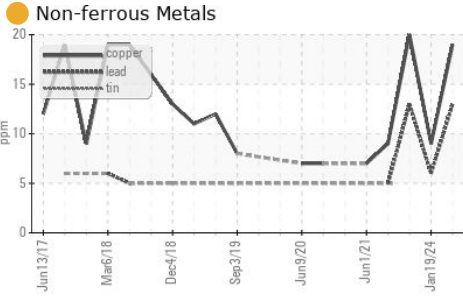


To manage this report scan the QR code

To discuss the diagnosis or test data:
 Brian Klutenkamper +1 (314)872-9540
bklutenkamper@englube.com

To change component or sample information:
 Tracy Weaks +1 (314)872-9540
tweaks@englube.com

OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		27.3	19.6	9.3
S		11.2	5.2	4.9
WPC	DL + DS	38.5	24.8	14.2

Contamination

Water	NEG	NEG	NEG
-------	------------	-----	-----

