## LABORATORY ANALYSIS

**Hydraulic System** 

**REYLAM-PRESS** 

OSSC04 OVERSHOOT(SCROLL LINE #4) (00155)

**ENGINEERED LUBRICANTS ENLUBE 20-AW (--- GAL)** 



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

## **COPELAND (MHDS)**

6001 S. 35TH STREET, SUITE D"" REYNOSA, ZZ

US

Contact: GERARDO GUERRERO francisco.castillo@Copeland.com

F:

## Oil Type

System

Department

Equipment No.

Diagnosis We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We

recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is a moderate 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 still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Customer Id: MOTMCA **Sample No.:** EN24040903 Lab Number: 24040903 Test Package: TEST

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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

Sample Information					
Lab Number	Ne	ew.	2404-00903	2401-00731	2310-00826
Date of Sample		vpical)	05 Apr 2024	19 Jan 2024	10 Oct 2023
Oil Added	( • ,	<i>y</i> p.ou.,	UNK	UNK	UNK
Last Drain Date					
Last Filter Service					
Sample Point					
Sample Status			ABNORMAL	NORMAL	NORMAL
VISCOSITY @ 100F or 40C (ASTM D-445)					
SSU Vis. @ 100F	SSU	· (/ 10 / 111	270.9	242.3	243.4
cSt Vis. @ 40C	cSt 46		△ 52.40	T46.93	47.13
_					
% WATER - KARL FISCHER (ASTM E203)					
% Water (KF)	%		<b>0.169</b>		
ppm Water (KF)	ppm		<b>1,690</b>		
COLOR (BASED	ATPA MO	1 D1500 S	TANDARDS)		
,		N D 1300 3	•		
Color	Scale 0-8		1.0*	0.5	<0.5
PARTICLE COU	NT (PER 1	IML)			
ISO CODE	ISO 4406(c) >1	9/18/14	18/16/11	18/16/12	19/16/13
4 Micron & Larger	particles/1ml >5	5000	<b>1,688</b>	□2,238	■2,636
6 Micron & Larger	particles/1ml >2	2500	<b>■344</b>	<b>□</b> 534	<b>625</b>
14 Micron & Larger	particles/1ml >1	60	<b>19</b>	□32	<b>4</b> 3
21 Micron & Larger	particles/1ml >4	-0	<b>4</b>	<b>1</b> 0	<b>1</b> 2
38 Micron & Larger	particles/1ml >1	0	■0	<b>0</b>	<b>0</b>
70 Micron & Larger	particles/1ml >3	}	<b>■</b> 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		<b>■&lt;5</b>	<b>-</b> <5	<b>=</b> <5
Iron (Fe)	ppm		<b>■</b> <5	<b>□</b> <5	<b>1</b> <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		46	62	61
Magnesium (Mg)	ppm		<5	<5	<5
Phosphorus(P)	ppm		448	476	491
Silicon (Si)	ppm		<5	<5	<5
Zinc (Zn)	ppm 71	5	<b>■</b> 513	□ 596	<b>601</b>
Sulfur (S)	ppm		1,840	1,470	1,580
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## **OIL ANALYSIS REPORT**





