## LABORATORY ANALYSIS

**REYLAM - DIECAST** 



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

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

US

Contact: GERARDO GUERRERO francisco.castillo@Copeland.com

T: F:

COPELAND (MHDS)

Equipment No. PROTECH01 IHS ANNEAL QUENCH (X0073)

System Quenching Fluid

Oil Type ENGINEERED LUBRICANTS ENCOOL SOL-6465GF-ND-XL-RO (--- GAL)

SAMPLE INFORMATION

## DIAGNOSIS

Department

Add make up dilution of 50:1 ENGINEERED LUBRICANTS ENCOOL SOL-6465GF-ND-XL-RO lean dilution until reaching recommended dilution of 10. The desired refractometer reading for this reservoir is 3.02. Leaning the dilution will lower the alkaline reserve and amines back to Moree acceptable levels.{not applicable} There is no indication of any contamination in the quenching fluid. Ratio is slightly strong. Total amine content is out of range. Tertiary amine content is out of range. Primary amine content is out of range. Alkaline Reserve is excessively high.

SAMPLE INFOR	NIVIA I IC	11			
Lab Number		New	2310-00654	2309-00658	2308-00884
Date of Sample		(Typical)	10 Oct 2023	14 Sep 2023	09 Aug 2023
Oil Added			UNK	UNK	UNK
Last Drain Date					
Months on Sample			37.4	36.6	35.4
Last Filter Service					
Sample Point					
Sample Status			SEVERE	SEVERE	SEVERE
RATIO PER RE	FRACT	OMETER			
Refract. Reading		OWE TELL	3.9	1.4	1.8
Refract. Model			DIGITAL	DIGITAL	DIGITAL
Refract. Ratio	oil:water		▲ 7:1	● 21:1	▲ 16:1
ALKALINE RES	ERVE (	ADDITION O	F DEIONIZED \	WATER IS PREF	ERRED)
Alkaline Reserve			164	<b>5</b> 8	• 90
PH (ASTM E-70	)				
pH	Scale 0-14		<b>■8.9</b>	<b>8.8</b>	<b>■</b> 8.9
Ratio Rec`d	oil:water		AS REC'D	AS REC'D	AS REC'D
		200)			
HARDNESS (MO	G/L CA	CO3)			
Hardness (CaCO3)	mg/L		19.8	38.2	120.2
Grains			1.2	2.2	7.1
TOTAL AMINE					
Total	mmol/gram		0.23	0.08	0.09
Tertiary	mmol/gram		△ 0.16	0.05	0.06
Primary	mmol/gram		▲ 0.07	0.03	0.03
CIC CORROSIC					
	ЛN			40.0500	40 85018
CIC Dilution			AS REC'D	AS REC'D	AS REC'D
CIC Corrosion	%		■ 0.0	0.0	0.0
GRAVIMETRIC,	MG/L				
Filter Micron	μ		0.45	0.45	0.45
Gravimetric	mg/L		<b>4</b>	<b>■</b> 8	<b>4</b>
BACTERIA COL		ASS DANGE	0.TO 6)		
DAGIENIA COL	וט) דוית	ASS NAINGE	<del>- 0 10 0)</del>		
			_		
Bacteria Class	Scale 0-6		<b>□</b> 0	<b>▲</b> 3	<b>▲</b> 3
Bacteria Class FUNGUS COUN		SS RANGES			<b>▲</b> 3
		SS RANGES			<b>△</b> 3
FUNGUS COUN	IT (CLA	SS RANGES	S: YEAST 0 TO	4/MOLD 0 TO 3)	
FUNGUS COUN Yeast Class Mold Class	Scale 0-4 Scale 0-3		E: YEAST 0 TO	4/MOLD 0 TO 3)	1 0
FUNGUS COUN Yeast Class Mold Class ENERGY DISPE	Scale 0-4 Scale 0-3 Scale D-3		E: YEAST 0 TO	4/MOLD 0 TO 3)	1 0
FUNGUS COUN Yeast Class Mold Class	Scale 0-4 Scale 0-3 ERSIVE		©: YEAST 0 TO 0	4/MOLD 0 TO 3)  1 0 ETECTION LIMI	□ 1 □ 0

**NEG** 

NEG

Customer Id: MOTMCA Sample No.: EN23100654 Lab Number: 23100654 Test Package: TEST



Water

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

NEG



## **FUEL REPORT**

