

# LABORATORY ANALYSIS



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

Department **REYLAM - TOOL ROOM**  
 Equipment No. **GRINDTR02 GRINDER (X0033)**  
 System **Grinding Fluid**  
 Oil Type **ENGINEERED LUBRICANTS ENCOOL SOL-6465GF-ND-XL-RO (--- GAL)**

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

## DIAGNOSIS

Add make up dilution of 50:1 ENGINEERED LUBRICANTS ENCOOL SOL-6465GF-ND-XL-RO lean dilution until reaching recommended dilution of 15:1. The desired refractometer reading for this reservoir is 2.01.(not applicable) There is no indication of any contamination in the grinding fluid. Ratio is slightly strong.

## SAMPLE INFORMATION

Lab Number	New	<b>2312-00142</b>	2310-00663	2309-00667
Date of Sample	(Typical)	<b>28 Nov 2023</b>	10 Oct 2023	14 Sep 2023
Oil Added		<b>UNK</b>	UNK	UNK
Last Drain Date		--	--	--
Months on Sample		<b>39.0</b>	37.4	36.6
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		<b>ABNORMAL</b>	ABNORMAL	SEVERE

## RATIO PER REFRACTOMETER

Refract. Reading		<b>2.9</b>	4.1	1.1
Refract. Model		<b>DIGITAL</b>	DIGITAL	DIGITAL
Refract. Ratio	oil:water	<b>▲ 9:1</b>	▲ 6:1	● 26:1

## PH (ASTM E-70)

pH	Scale 0-14	<b>■ 8.9</b>	■ 8.9	▲ 8.5
Ratio Rec'd	oil:water	<b>AS REC'D</b>	AS REC'D	AS REC'D

## HARDNESS (MG/L CaCO3)

Hardness (CaCO3)	mg/L	<b>32.2</b>	18.2	132.1
Grains		<b>1.9</b>	1.1	7.8

## CIC CORROSION

CIC Dilution		<b>AS REC'D</b>	AS REC'D	AS REC'D
CIC Corrosion	%	<b>■ 0.0</b>	■ 0.0	■ 0.0

## BACTERIA COUNT (CLASS RANGE 0 TO 6)

Bacteria Class	Scale 0-6	<b>■ 0</b>	■ 0	● 5
----------------	-----------	------------	-----	-----

## FUNGUS COUNT (CLASS RANGES: YEAST 0 TO 4/MOLD 0 TO 3)

Yeast Class	Scale 0-4	<b>■ 0</b>	■ 0	● 3
Mold Class	Scale 0-3	<b>■ 0</b>	■ 0	■ 0

## CONTAMINATION

Water		<b>NEG</b>	NEG	NEG
-------	--	------------	-----	-----

Customer Id: MOTMCA  
 Sample No.: EN23120142  
 Lab Number: 23120142  
 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](mailto:bklutenkamper@englube.com)

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

# FUEL REPORT