LABORATORY ANALYSIS

ENGINEERED LUBRICANTS

Department	**REYLAM - DIECAST**
Equipment No.	**QUEN05 DIECAST QUENCH TANK (X0038)**
System	**Quenching 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

{not applicable} There is no indication of any contamination in the quenching fluid. The condition of the quenching fluid is suitable for service.

SAMPLE INFORMATION

	New	(Typical)			
Lab Number			**2310-00648**	2309-00652	2308-00878
Date of Sample			**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			**NORMAL**	ABNORMAL	SEVERE

RATIO PER REFRACTOMETER

Refract. Reading			**3.2**	1.5	1.9
Refract. Model			**DIGITAL**	DIGITAL	DIGITAL
Refract. Ratio	oil:water		■ **8:1**	▲ 19:1	■ 15:1

PH (ASTM E-70)

pH	Scale 0-14		■ **9.1**	▲ 8.7	⬤ 8.6
Ratio Rec`d	oil:water		**AS REC'D**	AS REC'D	AS REC'D

HARDNESS (MG/L CACO3)

Hardness (CaCO3)	mg/L		**21.5**	14.1	137.0
Grains			**1.3**	<1.0	8.1

CIC CORROSION

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		■ **10**	■ 8	■ 14

BACTERIA COUNT (CLASS RANGE 0 TO 6)

Bacteria Class	Scale 0-6		■ **0**	■ 1	▲ 3

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

Yeast Class	Scale 0-4		■ **0**	■ 1	■ 1
Mold Class	Scale 0-3		■ **0**	■ 0	■ 0

ENERGY DISPERSIVE XRF (*BELOW MINIMUM DETECTION LIMIT)

ppm Chlorine (Cl)	ppm		*	*	*

CONTAMINATION

Water			**NEG**	NEG	NEG

Customer Id: MOTMCA
Sample No.: EN23100648
Lab Number: 23100648
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

Report Id: MOTMCA [ENGBAN] 23100648 (Generated: 01/06/2024 12:56:40) Rev: 1   Contact/Location: 01,06,02,07,09 - GERARDO GUERRERO - MOTMCA

Page 2 of 2