

LABORATORY ANALYSIS



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
T:
F:

Department **REYLAM - DIECAST**
Equipment No. **QUEN01 DIECAST QUENCH TANK (X0010)**
System **Quenching Fluid**
Oil Type **ENGINEERED LUBRICANTS ENCOOL SOL-6465GF-ND-XL-RO (--- GAL)**

DIAGNOSIS

Add 1/2 gallon of ENCOOL BASE PH-1-2 to the reservoir in an area of high agitation. Circulate the reservoir for a minimum 15 minutes. Check pH for a minimum reading of 8.9. If the reading has not stabilized at or above an 8.9, repeat the same addition and circulation process until a pH minimum of 8.9 has been achieved. {not applicable} There is no indication of any contamination in the quenching fluid. The pH is marginally low. PH is a metric for overall coolant health and stability. Maintaining the desired pH assists with corrosion protection and is a microorganism deterrent.

SAMPLE INFORMATION

Lab Number	New	2312-00123	2310-00644	2309-00648
Date of Sample	(Typical)	28 Nov 2023	10 Oct 2023	14 Sep 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Months on Sample		39.0	37.4	36.6
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

RATIO PER REFRACTOMETER

Refract. Reading		2.5	2.1	1.6
Refract. Model		DIGITAL	DIGITAL	DIGITAL
Refract. Ratio	oil:water	11:1	13:1	18:1

PH (ASTM E-70)

pH	Scale 0-14	8.8	8.8	8.7
Ratio Rec'd	oil:water	AS REC'D	AS REC'D	AS REC'D

HARDNESS (MG/L CaCO3)

Hardness (CaCO3)	mg/L	26.5	18.2	14.1
Grains		1.6	1.1	<1.0

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	8	8	6

BACTERIA COUNT (CLASS RANGE 0 TO 6)

Bacteria Class	Scale 0-6	0	3	3
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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	*	*	*
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CONTAMINATION

Water		NEG	NEG	NEG
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Customer Id: MOTMCA
Sample No.: EN23120123
Lab Number: 23120123
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

FUEL REPORT