

# LABORATORY ANALYSIS



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Department **REYLAM - DIECAST**  
Equipment No. **QUEN02 DIECAST QUENCH TANK CELL 2 TANK 1 (X0017)**  
System **Quenching Fluid**  
Oil Type **ENGINEERED LUBRICANTS ENCOOL SOL-6465GF-ND-XL-RO (--- GAL)**

## DIAGNOSIS

Add 1 gallons 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	2310-00645	2309-00649	2308-00875
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		ABNORMAL	ABNORMAL	SEVERE

## RATIO PER REFRACTOMETER

Refract. Reading		2.0	1.6	1.8
Refract. Model		DIGITAL	DIGITAL	DIGITAL
Refract. Ratio	oil:water	14:1	18:1	16:1

## PH (ASTM E-70)

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

## HARDNESS (MG/L CaCO3)

Hardness (CaCO3)	mg/L	18.1	14.1	120.2
Grains		1.1	<1.0	7.1

## 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	6	2	6

## BACTERIA COUNT (CLASS RANGE 0 TO 6)

Bacteria Class	Scale 0-6	2	1	5

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

Yeast Class	Scale 0-4	1	0	3
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.: EN23100645  
Lab Number: 23100645  
Test Package: TEST



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