

LABORATORY ANALYSIS



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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 -0 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. Inspect the reservoir for settled chips/fines, tramp oils, physical growth and remove them before there is an accumulation. Add a "severe" dose of BioTech 084, -0.1 ounces to the tank side reservoir in an area of high agitation. Follow up three days later with a "maintenance" dose, -0 ounces, to stabilize the microbial additive package. Circulate the coolant daily for proper aeration.(not applicable) Elevated bacteria counts. 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	2310-00644	2309-00648	2308-00874
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		2.1	1.6	1.9
Refract. Model		DIGITAL	DIGITAL	DIGITAL
Refract. Ratio	oil:water	13:1	18:1	15:1

PH (ASTM E-70)

pH	Scale 0-14	8.8	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	18.2	14.1	130.4
Grains		1.1	<1.0	7.7

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	6	24

BACTERIA COUNT (CLASS RANGE 0 TO 6)

Bacteria Class	Scale 0-6	3	3	4
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FUNGUS COUNT (CLASS RANGES: YEAST 0 TO 4/MOLD 0 TO 3)

Yeast Class	Scale 0-4	1	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.: EN23100644
Lab Number: 23100644
Test Package: TEST



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FUEL REPORT