

LABORATORY ANALYSIS



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Department **DIECAST**
Equipment No. **14D3399 PRESS(ROTOR) QUENCH SHUTTLE 3 (X0004)**
System **Quenching Fluid**
Oil Type **ENGINEERED LUBRICANTS ENCOOL SOL-6465GF-ND-XL-RO (450 GAL)**

DIAGNOSIS

Add ENGINEERED LUBRICANTS ENCOOL SOL-6465GF-ND-XL-RO concentrate until reaching a dilution of 10:1. This addition will help increase the alkaline reserve and tertiary amines. {not applicable} There is no indication of any contamination in the quenching fluid. Total amine content is out of range. Excessively low tertiary amine content. Alkaline Reserve is excessively low.

SAMPLE INFORMATION

Lab Number	New	2306-00728	2305-00008	2302-00394
Date of Sample	(Typical)	21 Jun 2023	27 Apr 2023	09 Feb 2023
Oil Added		UNK	UNK	UNK
Last Drain Date		--	--	--
Last Filter Service		--	--	--
Sample Point		---	---	---
Sample Status		SEVERE	NORMAL	ABNORMAL

RATIO PER REFRACTOMETER

Refract. Reading		1.9	2.8	2.6
Refract. Model		DIGITAL	DIGITAL	DIGITAL
Refract. Ratio	oil:water	15:1	10:1	11:1

ALKALINE RESERVE (ADDITION OF DEIONIZED WATER IS PREFERRED)

Alkaline Reserve		▲ 90	127	106
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PH (ASTM E-70)

pH	Scale 0-14	9.3	9.2	9.0
Ratio Rec'd	oil:water	AS REC'D	AS REC'D	AS REC'D

HARDNESS (MG/L CaCO3)

Hardness (CaCO3)	mg/L	<6.6	<6.6	<6.6
Grains		<1.0	<1.0	<1.0

TOTAL AMINE

Total	mmol/gram	▲ 0.11	0.15	0.13
Tertiary	mmol/gram	0.06	0.09	▲ 0.08
Primary	mmol/gram	0.05	0.06	0.05

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	2	50	10

BACTERIA COUNT (CLASS RANGE 0 TO 6)

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

Yeast Class	Scale 0-4	0	0	0
Mold Class	Scale 0-3	0	0	0

ENERGY DISPERSIVE XRF (*BELOW MINIMUM DETECTION LIMIT)

ppm Chlorine (Cl)	ppm	*	*	*
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Customer Id: EMERUS
Sample No.: EN23060728
Lab Number: 23060728
Test Package: TEST



To manage this report scan the QR code

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FUEL REPORT

