LABORATORY ANALYSIS



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COPELAND (MHDS)

6001 S. 35TH STREET, SUITE D"" REYNOSA, ZZ

US

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T: F:

REYLAM - DIECAST
PROTECH09 IHS ANNEAL QUENCH (X0083)

System Quenching Fluid

Oil Type ENGINEERED LUBRICANTS ENCOOL SOL-6465GF-ND-XL-RO (--- GAL)

DIAGNOSIS

Department

Equipment No.

Please add 1/2 gallon of ENCOOL PH-1-2 to the reservoir to increase alkalinity.{not applicable} There is no indication of any contamination in the quenching fluid. Tertiary amine content is out of range. Alkaline Reserve is excessively low.

SAMPLE INFORMATION				
Lab Number	New	2312-01088	2312-00140	2310-00661
Date of Sample	(Typic	al) 20 Dec 2023	28 Nov 2023	10 Oct 2023
Oil Added		UNK	UNK	UNK
Last Drain Date				
Months on Sample		39.7	39.0	37.4
Last Filter Service		-		
Sample Point Sample Status		SEVERE	ABNORMAL	SEVERE
			ABNOTIVIAL	SEVERIE
RATIO PER REI	FRACTOMET	ER		
Refract. Reading		2.4	3.8	3.7
Refract. Model		DIGITAL	DIGITAL	DIGITAL
Refract. Ratio	oil:water	12:1	<u></u> 7:1	<u> </u>
ALKALINE RESERVE (ADDITION OF DEIONIZED WATER IS PREFERRED)				
Alkaline Reserve		92	△ 153	1 53
PH (ASTM E-70)			
pH	Scale 0-14	■8.9	<u> </u>	□ 9.0
Ratio Rec`d	oil:water	AS REC'D	AS REC'D	AS REC'D
		AOTILOD	AOTILOD	AOTILOB
HARDNESS (MO	G/L CACO3)			
Hardness (CaCO3)	mg/L	20.7	14.1	17.3
Grains		1.2	<1.0	1.0
TOTAL AMINE				
Total	mmol/gram	■ 0.12	△ 0.18	▲ 0.23
Tertiary	mmol/gram	△ 0.08	0.13	0.14
Primary	mmol/gram	0.04	□0.05	▲ 0.09
CIC CORROSION				
CIC Dilution		AS REC'D	AS REC'D	AS REC'D
CIC Corrosion	%	0.0	0.0	0.0
GRAVIMETRIC,	MG/I			
,		0.45	0.45	0.45
Filter Micron Gravimetric	μ	0.45	0.45	0.45
	mg/L	□ 0	□10	□14
BACTERIA COL	JNT (CLASS F	RANGE 0 TO 6)		
Bacteria Class	Scale 0-6	0	0	□0
FUNGUS COUN	IT (CLASS RA	NGES: YEAST 0 TO	0 4/MOLD 0 TO 3)	
Yeast Class	Scale 0-4	0	1 0	□ 0
Mold Class	Scale 0-3	■0	0	0
ENERGY DISPE	RSIVE XRE (*BELOW MINIMUM	DETECTION LIM	T)
	,	*	*	*
ppm Chlorine (Cl)	ppm	*	^	^
CONTAMINATIO	ON			

NEG

NEG

Customer Id: MOTMCA Sample No.: EN23121088 Lab Number: 23121088 Test Package: TEST



Water

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FUEL REPORT

