LABORATORY ANALYSIS

Department
Equipment N
System

DIAGNOSIS

REYLAM - DIECAST PROTECH01 IHS ANNEAL QUENCH (X0073) No.

Quenching Fluid

Oil Type

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

Very likely, based on the prior report, and excessive amount of pH buffer was added to this system. The high pH is a concern, however without any additional introductions, it should correct on it's own within a few days. Recommendation is to monitor and collect a sample again in a month and observe trend in pH to ensure it is returning to normal.{not applicable} There is no indication of any contamination in the guenching fluid. The pH is marginally high. High pH can lead to aluminum corrosion and unpleasant work environment. Inspect for foreign sources such as alkaline cleaners causing the elevated pH. Primary amine content is out of range. Alkaline Reserve is excessively high. With care and observation, fluid is suitable for continued use.

Customer Id: MOTMCA Sample No.: EN23060310 Lab Number: 23060310 Test Package: TEST



To discuss the diagnosis or test data: David Godwin +1 dgodwin@englube.com

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SAMPLE INFORMATION						
Lab Number		New	2306-00310	2305-00474	2304-00562	
Date of Sample		(Typical)	06 Jun 2023	03 May 2023	11 Apr 2023	
Oil Added			UNK	UNK	UNK	
Last Drain Date						
Months on Sample			33.3	32.2	31.5	
Last Filter Service						
Sample Point						
Sample Status			SEVERE	SEVERE	NORMAL	
RATIO PER REFRACTOMETER						
Refract. Reading			2.9	2.3	2.8	
Refract. Model			DIGTIAL	DIGITAL	DIGITAL	
Refract. Ratio	oil:water		9:1	12:1	10:1	
ALKALINE RESERVE (ADDITION OF DEIONIZED WATER IS PREFERRED)						
Alkaline Reserve			• 144	e 85	111	
PH (ASTM E-70)						
рН	Scale 0-14		9 .6	8.6	9.0	
Ratio Rec`d	oil:water		AS REC'D	AS REC'D	AS REC'D	
HARDNESS (MG/L CACO3)						
Hardness (CaCO3)	mg/L		52.8	47.2	117.0	
Grains	<u>g</u> , _		3.1	2.8	6.9	
TOTAL AMINE						
Total	mmol/gram		0.17	0.15	0.13	
Tertiary	mmol/gram		0.09	▲ 0.08	0.09	
Primary	mmol/gram		▲ 0.08	▲ 0.07	0.04	
CIC CORROSION						
CIC Dilution			AS REC'D	AS REC'D	AS REC'D	
CIC Corrosion	%			AS REC D	AS REC D	
			0.0	0.0	0.0	
GRAVIMETRIC,	MG/L					
Filter Micron	μ		0.45	0.45	0.45	
Gravimetric	mg/L		12	▲ 70	12	
BACTERIA COUNT (CLASS RANGE 0 TO 6)						
Bacteria Class	Scale 0-6		0	4	0	
FUNGUS COUNT (CLASS RANGES: YEAST 0 TO 4/MOLD 0 TO 3)						
Yeast Class	Scale 0-4		0	• 3	1	
Mold Class	Scale 0-3		0	0	1	
ENERGY DISPE	RSIVE	XRF (*BELC		TECTION LIMIT)		
ppm Chlorine (Cl)	ppm		*	*	89	

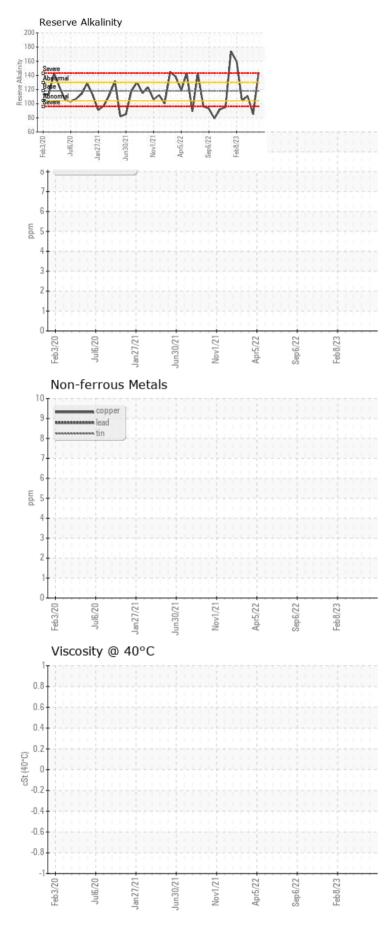


MOTORES HERMETICOS DEL SUR

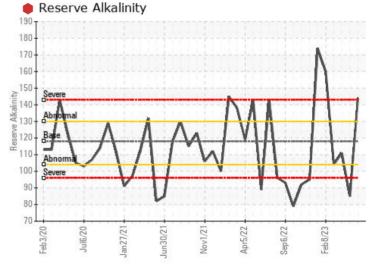
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FUEL REPORT



Report Id: MOTMCA [ENGBAN] 23060310 (Generated: 07/24/2023 16:04:39) Rev: 1



Contact/Location: 01,06,02,07,09 - GERARDO GUERRERO - MOTMCA