LABORATORY ANALYSIS

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Mexico

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F:

AZUL Department

APPLETON 453 (00063) Equipment No.

System **Hydraulic System**

ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL) Oil Type

SAMPLE INFORMATION

DIAGNOSIS

We recommend that you drain the oil from the component if this has not already been done. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. Zinc (Zn) ppm levels are severely low. cSt Vis. @ 40C is abnormally high. The viscosity of the oil is higher than normal, possibly indicating the addition of a heavier grade of oil.

Lab Number		New	2312-00036		
Date of Sample		(Typical)	13 Nov 2023		
Oil Added			UNK		
Last Drain Date					
Last Filter Service					
Sample Point					
Sample Status			SEVERE		
VISCOSITY @ 100F OR 40C (ASTM D-445)					
		1100 (71011	·		
SSU Vis. @ 100F	SSU		189.5		
cSt Vis. @ 40C	cSt	32.0	△ 36.70		
PARTICLE COUNT (PER 1ML)					
ISO CODE	ISO 4406(c)	>19/18/14	20/17/12		
4 Micron & Larger	particles/1ml	>5000	9,079		
6 Micron & Larger	particles/1ml	>2500	1,282		
14 Micron & Larger	particles/1ml	>160	■34		
21 Micron & Larger	particles/1ml	>40	10		
38 Micron & Larger	particles/1ml	>10	1		
70 Micron & Larger	particles/1ml	>3	1		
ICP - OILS (REP		J IN PARTS			
Aluminum (Al)	ppm		<5 -		
Antimony (Sb)	ppm		<5		
Cadmium (Cd)	ppm		<5 -		
Chromium (Cr)	ppm		<5		
Cobalt (Co)	ppm		<5 		
Copper (Cu)	ppm		■ <5		
Iron (Fe)	ppm		10		
Lead (Pb)	ppm		<5		
Manganese (Mn)	ppm		<5 -		
Molybdenum(Mo)	ppm		<5		
Nickel (Ni)	ppm		<5 -		
Silver (Ag)	ppm		<5		
Tin (Sn)	ppm		<5 -		
Titanium (Ti)	ppm		<5		
Vanadium (V)	ppm		<5		
Barium (Ba)	ppm		<5		
Boron (B)	ppm		6		
Calcium (Ca)	ppm		<5		
Magnesium (Mg)	ppm		<5		
Phosphorus(P)	ppm		113		
Silicon (Si)	ppm		<5		
Zinc (Zn)	ppm	668	160		
Sulfur (S)	ppm		882		
DR FERROGRAPHY READINGS					
L			4.7		
S			4.4		

9.1

Customer Id: ENC0005J03 Sample No.: EN23120036 Lab Number: 23120036 Test Package: TEST



WPC

DL + DS

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OIL ANALYSIS REPORT

