## LABORATORY ANALYSIS

WINDING

**Hydraulic System** 



COPELAND	(EMERSON	CLIMATE	TECHNOI	OGIES

3101 W MILITARY HWY BUILDING 2, (SALTILLO PLANT)

SALTILLO, AM MX Contact: Adriel Alviso Adriel.Alviso@copeland.com

T: F:

#### DIAGNOSIS

Department

System

Oil Type

Equipment No.

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Customer Id: EMESAL Sample No.: EN23110654 Lab Number: 23110654 Test Package: TEST



To manage this report scan the QR code

To discuss the diagnosis or test data: Brad Fritz +1 (314)872-9540 <u>bfritz@englube.com</u>

To change component or sample information: Tracy Weaks +1 (314)872-9540 tweaks@englube.com

SAMPLE INFOR		'IN				
Lab Number		New	2311-00654			
Date of Sample		(Typical)	26 Oct 2023			
Oil Added			UNK			
Last Drain Date						
Last Filter Service						
Sample Point						
Sample Status			ABNORMAL			
VISCOSITY @ 1	00F OF	R 40C (ASTN	Л D-445)			
SSU Vis. @ 100F	SSU		161.4			
cSt Vis. @ 40C	cSt	32.0	<b>31.19</b>			
COLOR (BASED	ON AS	STM D1500 S				
Color	Scale 0-8		0.5			
PARTICLE COU						
ISO CODE	ISO 4406(c)	>19/18/14	21/18/15			
4 Micron & Larger	particles/1ml		<b>A</b> 18,324			
6 Micron & Larger	particles/1ml	>2500	<b>1,886</b>			
14 Micron & Larger	particles/1ml		<b>198</b>			
21 Micron & Larger	particles/1ml	>40	<mark>▲</mark> 86			
38 Micron & Larger	particles/1ml	>10	<b>10</b>			
70 Micron & Larger	particles/1ml	>3	<b>1</b>			
ICP - OILS (REPORTED IN PARTS PER MILLION)						
Aluminum (Al)	ppm		<5			
Antimony (Sb)	ppm		<5			
Cadmium (Cd)	ppm		<5			
Chromium (Cr)	ppm		<5			
Cobalt (Co)	ppm		<5			
Copper (Cu)	ppm		<b>■</b> <5			
Iron (Fe)	ppm		<b>~</b> 5			
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		<5			
Calcium (Ca)	ppm		71			
Magnesium (Mg)	ppm		<5			
Phosphorus(P)	ppm		500			
Silicon (Si)	ppm	668	<5			
Zinc (Zn)	ppm	668	■ 647 1 700			
Sulfur (S)	ppm		1,700			

# ENGINEERED LUBRICANTS ENLUBE 15-AW (73 GAL)

**INSERTADORA PRINCIPAL-LINEA 06-CELDA 7.1 (00029)** 

SAMPLE INFORMATION



# **OIL ANALYSIS REPORT**



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DR FERROGRAPHY READINGS							
L		<b>19.3</b>					
S		<b>1.3</b>					
WPC	DL + DS	20.6					
CONTAMINATION							
Water	>0.05	NEG					

