**CONSTRUCTION EQUIPMENT** 

# 2021.16.0827 - Diesel Engine

Sample No: LH0286906 Oil Type: {unknown}

_				
SAM	PLE INFO	RMATION		
		LH0286906		
Sample Number			 	
Sample Date		07 Mar 2024	 	
Machine Hours		0	 	
Oil Hours		0	 ***	
Oil Changed		N/A	 	
Sample Status		MARGINAL	 	
OIL	ONDITIO	ON		
Visc @ 100°C	cSt	10.6	 	
Oxidation (PA)	%	193	 	
ada .				
CON	TAMINA	TION		
Water	%	NEG	 	
Soot %	%	○ 0.1	 	
Nitration (PA)	%	115	 	
Sulfation (PA)	%	106	 	
Glycol	%	NEG	 	
Fuel	%	O 2.7	 	
Silicon		© 20	 	
Sodium	ppm	O 2	 	
Potassium	ppm	<b>65</b>	 	
Foldssiuiii	ppm	05	 	
(O)	<b>-</b>			
WEA	IR META	LS		
Iron	ppm	<b>37</b>	 	
Copper	ppm	<b>43</b>	 	
Lead	ppm	<b>4</b>	 	
Tin	ppm	<b>1</b>	 	
Aluminum	ppm	24	 	
Chromium	ppm	<b>O</b> <1	 	
Molybdenum	ppm	<b>47</b>	 	
Nickel	ppm	<b>O</b> <1	 	
Titanium	ppm	0	 	
Silver	ppm	<b>○</b> <1	 	
Manganese	ppm	4	 	
Vanadium	ppm	0	 	
	ITIVES			
Calcium	ppm	<b>1432</b>	 	
Magnesium	ppm	<b>866</b>	 	
Zinc	ppm	<b>824</b>	 	
Phosphorus	ppm	<b>682</b>	 	
Barium	ppm	<b>22</b>	 	
Boron	ppm	<b>29</b>	 	

## LIEBHERR CANADA LTD. - REMAN

1015 SUTTON DRIVE BURLINGTON, ON

CA L7L 5Z8

Contact: Morteza Mahmoudi morteza.mahmoudi@liebherr.com

T: (905)319-9222 F: (905)319-6622

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring. No other contaminants were detected in the oil. The condition of the oil is acceptable for the time in service.

Depot: REMAN Unique No: 5737913 Signed: Kevin Marson **Report Date:** 11 Mar 2024

# LIEBHERR







### **GRAPHS**

