



15070 - Right Final Drive

Sample No: LH0286572

Oil Type: {unknown}

Sample Information

Sample Number	LH0286572	 	
Sample Date	21 Apr 2024	 	
Machine Hours	15792	 	
Oil Hours	0	 	
Oil Changed	Changed	 	
Sample Status	SEVERE	 	

Oil Condition

Visc @ 40°C

cSt

158

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Contamination							
Water	%	0.386					
Silicon	ppm	4291					
Sodium	ppm	323					
Potassium	ppm	◯ 344					

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PQ		688	 	
Iron	ppm	0 11264	 	
Copper	ppm	0 252	 	
Lead	ppm	0 13	 	
Tin	ppm	 15	 	
Aluminum	ppm	985	 	
Chromium	ppm	0 171	 	
Molybdenum	ppm	14	 	
Nickel	ppm	0 40	 	
Titanium	ppm	0 50	 	
Silver	ppm	0	 	
Manganese	ppm	110	 	
Vanadium	ppm	2	 	

Additives Calcium 986 ppm Magnesium 211 ppm Zinc ppm 157 Phosphorus 440 ppm Barium ppm <1 80 Boron ppm

LIEBHERR CANADA LTD.

1015 SUTTON DRIVE BURLINGTON, ON CA L7L 5Z8 Contact: Steve Lehto steve.lehto@liebherr.com T: (905)319-9222 F: (905)319-6617

Diagnosis

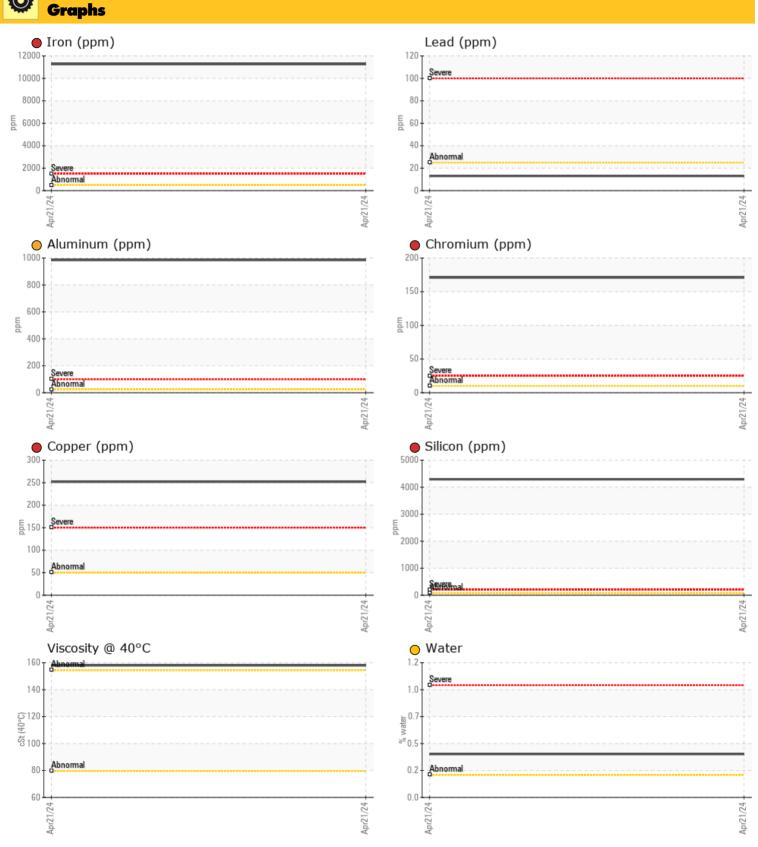
We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.Chromium and copper and iron and nickel ppm levels are severe. PQ levels are abnormal. Tin ppm levels are abnormal. Aluminum ppm levels are noted. Titanium ppm levels are marginal. Gear wear is indicated. Bearing and/or bushing wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring. There is a moderate concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:LIEMISUnique No:5763820Signed:Kevin MarsonReport Date:24 Apr 2024Contact/Location:Steve Lehto - LIEMIS





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Report Id: LIEMIS [WCAMIS] 02630688 (Generated: 04/24/2024 09:06:52) Rev: 1

Contact/Location: Steve Lehto - LIEMIS