



LIEBHERR 2539 - 3 Slewing Gearbox

Sample No: LH0183661

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Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

Additives

ppm

ppm

ppm

ppm

ppm

ppm

Oil Type: LIEBHERR GEAR HYPOID 90 EP

J Sample Information					
Sample Number		LH0183661			
Sample Date		14 Mar 2024			
Machine Hours		588			
Oil Hours		113			
Oil Changed		N/A			
Sample Status		NORMAL			
Oil Condition					
Visc @ 40°C	cSt	0 195			

Contamination						
Water	%	NEG				
Silicon	ppm	0				
Sodium	ppm	02				
Potassium	ppm	0 <1				

M				
₩ Wee	ar Metal	5		
Iron	ppm	0 27	 	
Copper	ppm	0 <1	 	
Lead	ppm	0	 	
Tin	ppm	00	 	
Aluminum	ppm	0	 	
Chromium	ppm	○ <1	 	
Molybdenum	ppm	0	 	
Nickel	ppm	0 <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	0	 	
Vanadium	ppm	0	 	

LIEBHERR CANADA LTD. 49C MEWS PLACE

ST. JOHN'S, NL CA A1B 4N2 Contact: Warren Coombs warren.coombs@liebherr.com T: F: (709)368-6494

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot:	LIE49STJ	
Unique No:	5760196	
Signed:	Wes Davis	
Report Date: 05 Apr 2024		
Contact/Location: Warren Coombs - LIE49STJ		

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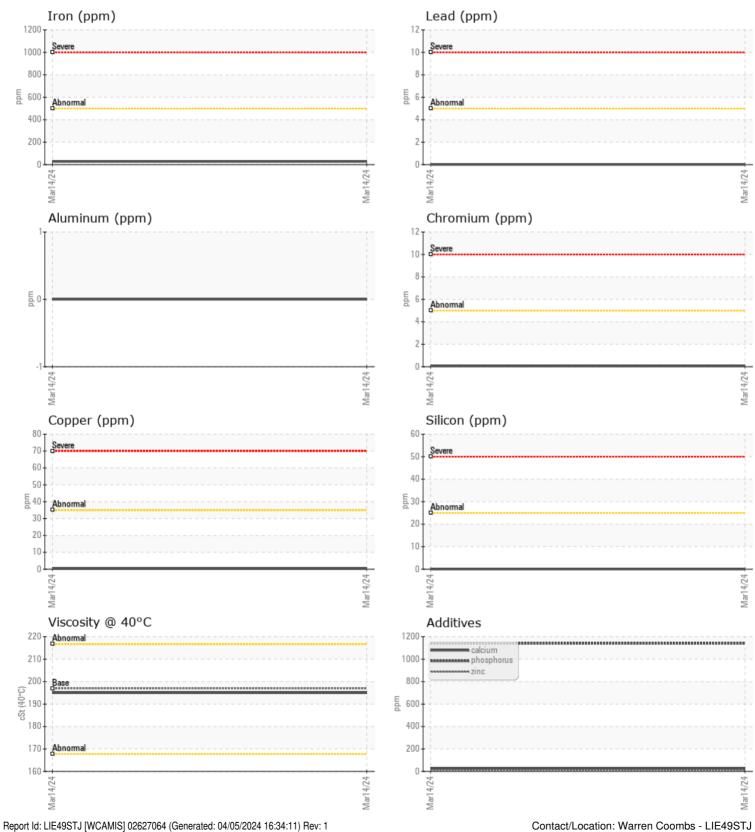
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 $\overline{\mathbf{O}}$ Graphs



Contact/Location: Warren Coombs - LIE49STJ