



# 2008.03.0936 - Diesel Engine

Sample No: LH0266056

Oil Type: PETRO CANADA 15W40

J SAMPLE INFORMATION					
Sample Number	LH0266056				
Sample Date	22 Aug 2023				
Machine Hours	19367				
Oil Hours	52				
Oil Changed	Changed				
Sample Status	NORMAL				

0 14.0

49

OIL CO	<b>NDITION</b>
Visc @ 100°C	cSt

### St PA) %

Oxidation	(F
-	

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CONT	AMINATIO	DN		
Soot %	%	0	 	
Nitration (PA)	%	49	 	
Sulfation (PA)	%	53	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	<b>9</b>	 	
Sodium	ppm	0 15	 	
Potassium	ppm	01	 	

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## **WEAR METALS**

Iron	ppm	6	 	
Copper	ppm	0 12	 	
Lead	ppm	01	 	
Tin	ppm	<mark>○</mark> <1	 	
Aluminum	ppm	02	 	
Chromium	ppm	0	 	
Molybdenum	ppm	67	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	<mark>()</mark> <1	 	
Manganese	ppm	<b>○</b> <1	 	
Vanadium	ppm	0	 	

ADDITIVES					
Calcium	ppm	0 1948			
Magnesium	ppm	0 245			
Zinc	ppm	0 1156			
Phosphorus	ppm	0 1049			
Barium	ppm	0 27			
Boron	maa	284			

### LIEBHERR CANADA LTD. - REMAN

1015 SUTTON DRIVE BURLINGTON, ON CA L7L 5Z8 Contact: Jeff Carter jeff.carter@liebherr.com T: (905)319-9222 F: (905)319-6622

### Diagnosis

Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: REMAN Unique No: 5632316 Signed: Kevin Marson Report Date: 30 Aug 2023

Report Id: REMAN [WCAMIS] 02579256 (Generated: 08/30/2023 14:22:06) Rev: 1

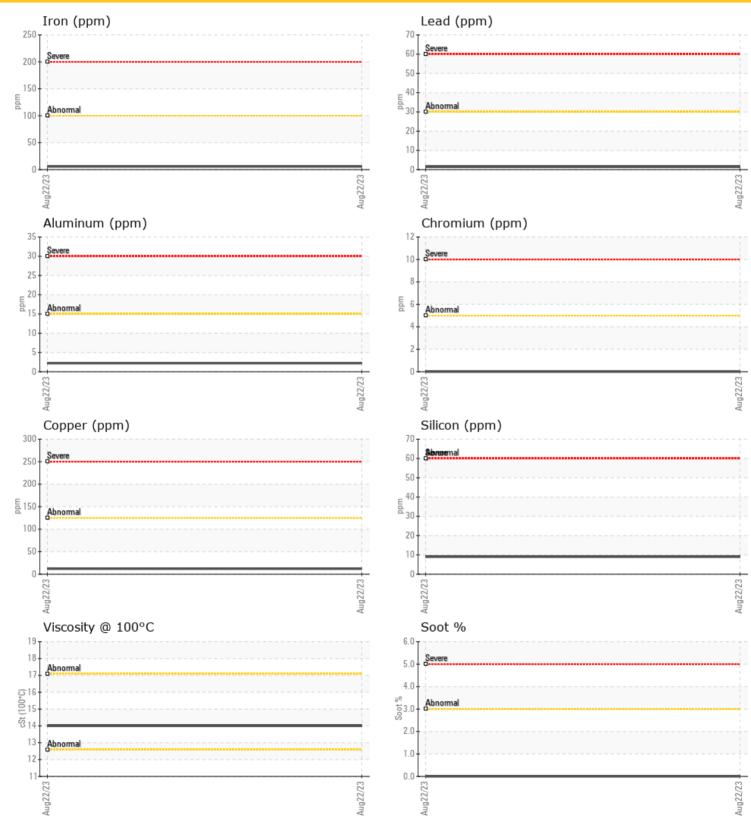
Contact/Location: Jeff Carter - REMAN





GRAPHS

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Contact/Location: Jeff Carter - REMAN