

## [(363347)] LIEBHERR R934 054150-1550 - Diesel Engine

Sample No: LH0218933

Oil Type: VALVOLINE ALLFLEET 10W30

## Information sur l'échantillon

Numéro d'échant.		LH0218933	LH0218927	LH0218919	
Date d'échant.		09 Apr 2024	13 Jul 2023	22 Sep 2022	
Heures de la Machine		1485	1040	468	
Heures de l'huile		0	0	0	
Huile changée		Changed	Changed	N/A	
Statut de l'echant.		ABNORMAL	NORMAL	NORMAL	
🖤 État d	'huile				
Visc 100°C	cSt	<b>)</b> 13.7	0 11.7	0 11.9	
Oxvdation (PA)	%	67	73	203	

Contamination						
Eau	%	NEG	NEG	NEG		
% de suie	%	0 ()	0	0		
Nitration (PA)	%	81	78	102		
Sulfatation (PA)	%	57	65	110		
Glycol	%	NEG	NEG	NEG		
Essence	%	<1.0	<1.0	0 1		
Silicium	ppm	0 11	8	0 10		
Sodium	ppm	02	0 2	03		
Potassium	ppm	07	2	3		

## $\bigcirc$ Métaux d'usure Fer ppm 06 $\bigcirc 7$ 0 11 Cuivre ppm 05 0 108 Plomb 0 ppm 6 Étain 0 ppm Aluminium 04 ppm $\bigcirc 2$ 3 Chrome ○ <1 ppm ○ <1 $\bigcirc$ Molybdène 82 0 16 42 ppm Nickel 0 $\bigcirc 0$ ppm 0 <1 Titane 4 0 36 ppm Argent 0 $\bigcirc 0$ ppm

1	Vanadiu	ım

Manganèse

ppm

ppm

Addit	tifs				
Calcium	ppm	2169	0 1873	0 1385	
Magnésium	ppm	56	○ 342	909	
Zinc	ppm	0 1157	0 1089	848	
Phosphore	ppm	965	○ 960	748	
Baryum	ppm	<b>2</b>	04	30	
Bore	ppm	35	34	83	

 $\bigcirc <1$ 



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**KARSON SAND & GRAVEL INC** 

3733 CARP ROAD CARP, ON CA K0A 1L0 Contact: Richard Simard richard.simardksg@gmail.com T: (613)407-0460 E:

## Diagnostic

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as VALVOLINE ALLFLEET 10W30, however, a fluid match indicates that this fluid is SAE 40 Diesel Engine Oil. Please confirm the oil type and grade on your next sample.All component wear rates are normal. Elevated aluminum (AI) 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. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

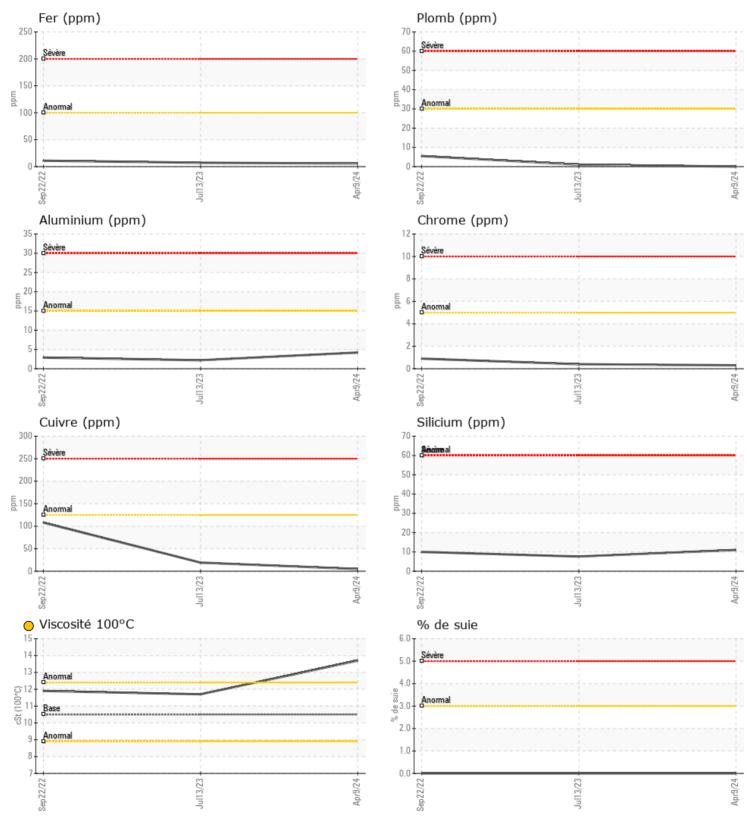






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Graphs



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