

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R934 048907-1550 - Diesel Engine

Sample No: LH0260443

Oil Type: PETRO CANADA 10W40



**REGEHR CONTRACTING**  
6547 MT. LEHMAN ROAD  
ABBOTSFORD, BC  
CA V4X 2G5  
Contact: Service Manager

T:  
F:



#### SAMPLE INFORMATION

Sample Number	LH0260443	LH0226689	LH0238668	LH0177407
Sample Date	07 Jul 2023	16 Mar 2023	29 Aug 2022	28 Aug 2020
Machine Hours	4540	4080	3090	467
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 100°C	cSt	13.3	13.0	13.0	11.3
Oxidation (PA)	%	63	69	68	189



#### CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	63	73	69	88
Sulfation (PA)	%	51	60	56	106
Glycol	%	NEG	NEG	NEG	0.0
Fuel	%	<1.0	<1.0	<1.0	1.3
Silicon	ppm	6	7	8	14
Sodium	ppm	1	2	2	4
Potassium	ppm	<1	<1	1	17

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	3	3	5	18
Copper	ppm	1	1	2	55
Lead	ppm	0	<1	<1	4
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	<1	2	2	6
Chromium	ppm	<1	0	<1	1
Molybdenum	ppm	56	59	56	45
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	2
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1016	1106	1102	1332
Magnesium	ppm	967	983	957	894
Zinc	ppm	1173	1212	1171	843
Phosphorus	ppm	1037	1078	1053	644
Barium	ppm	0	<1	<1	44
Boron	ppm	1	2	3	84

Depot: REGABB  
Unique No: 5605777  
Signed: Kevin Marson  
Report Date: 10 Jul 2023



### GRAPHS

