

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A934C 057446-1007 - Diesel Engine

Sample No: LH0276178

Oil Type: KLONDIKE HEAVY DUTY 15W40



**ABC RECYCLING**  
 8081 MEADOW AVE.  
 BURNABY, BC  
 CA V3N 2V9  
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#### Sample Information

Sample Number	LH0276178	LH0281194	LH0213841	LH0213848
Sample Date	21 Apr 2024	22 Jan 2024	11 Jul 2023	24 Apr 2023
Machine Hours	26815	26482	25673	25419
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL



#### Oil Condition

Visc @ 100°C	cSt	12.0	14.5	13.8	14.1
Oxidation (PA)	%	34	54	37	40



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1.2	3.6	1	1.4
Nitration (PA)	%	56	86	58	68
Sulfation (PA)	%	50	81	52	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.4	0.6	<1.0	<1.0
Silicon	ppm	4	8	7	8
Sodium	ppm	<1	2	2	2
Potassium	ppm	<1	2	<1	<1



#### Wear Metals

Iron	ppm	5	16	4	6
Copper	ppm	<1	3	1	<1
Lead	ppm	0	8	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	2	1	1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	<1	4	1	3
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	1867	2265	2287	2458
Magnesium	ppm	18	71	18	49
Zinc	ppm	829	1011	990	1059
Phosphorus	ppm	695	851	902	963
Barium	ppm	0	0	0	0
Boron	ppm	1	1	2	2

#### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: ABCBUR  
 Unique No: 5772020  
 Signed: Wes Davis  
 Report Date: 24 Apr 2024



### Graphs

