

LIEBHERR

CONSTRUCTION EQUIPMENT



[(344443)] LIEBHERR LH24 118108-1251 - Transmission (Manu

Sample No: LH0250458

Oil Type: KLONDIKE FULL SYNTHETIC 75W90



ABC RECYCLING
 8081 MEADOW AVE.
 BURNABY, BC
 CA V3N 2V9
 Contact: John Anderson
 john.anderson@abcrecycling.com
 T: (778)988-9944
 F:



Sample Information

Sample Number	LH0250458	LH0260609	LH0250356	LH0194067
Sample Date	04 Apr 2024	21 Sep 2023	04 Apr 2023	24 Nov 2022
Machine Hours	7662	6390	5211	4075
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL



Oil Condition

Visc @ 40°C	cSt	69.0	82.7	80.1	61.8
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Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	3	3	3
Sodium	ppm	3	3	2	5
Potassium	ppm	0	<1	<1	<1



Wear Metals

Iron	ppm	57	53	34	28
Copper	ppm	47	65	31	33
Lead	ppm	<1	2	1	2
Tin	ppm	2	2	1	<1
Aluminum	ppm	1	<1	1	1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	40	8	11	24
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	13	6	9	5
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	734	145	266	697
Magnesium	ppm	660	68	147	389
Zinc	ppm	808	147	252	577
Phosphorus	ppm	971	618	873	1356
Barium	ppm	<1	<1	0	0
Boron	ppm	19	26	50	129

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 fluid. Viscosity of sample indicates oil is within SAE 30 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 fluid is acceptable for the time in service.

Depot: ABCBUR
Unique No: 5772164
Signed: Kevin Marson
Report Date: 23 Apr 2024



Graphs

