

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 057446-1007 - Transmission (Manual)

Sample No: LH0281193

Oil Type: KLONDIKE HEAVY DUTY 15W40



ABC RECYCLING
 8081 MEADOW AVE.
 BURNABY, BC
 CA V3N 2V9
 Contact: John Anderson
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SAMPLE INFORMATION

Sample Number	LH0281193	LH0191987	LH0177449	LH0162247
Sample Date	22 Jan 2024	02 Dec 2022	14 Feb 2021	05 May 2020
Machine Hours	26482	25052	23033	21966
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	70.1	72.9	74.8	79.4
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CONTAMINATION

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



WEAR METALS

Iron	ppm	11	12	7	7
Copper	ppm	104	171	168	195
Lead	ppm	3	4	4	5
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	2	1	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	37	74	57	61
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1959	1753	1029	1083
Magnesium	ppm	248	491	969	996
Zinc	ppm	1066	1202	1217	1222
Phosphorus	ppm	1017	1185	1084	1113
Barium	ppm	0	0	0	0
Boron	ppm	27	49	18	16

Diagnosis

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. The condition of the fluid is acceptable for the time in service.

Depot: ABCBUR
Unique No: 5733423
Signed: Kevin Marson
Report Date: 16 Feb 2024



GRAPHS

