

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 057446-1007 - Rear Differential

Sample No: LH0281187

Oil Type: KLONDIKE FULL SYNTHETIC 75W90



ABC RECYCLING
 8081 MEADOW AVE.
 BURNABY, BC
 CA V3N 2V9
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SAMPLE INFORMATION

Sample Number	LH0281187	LH0192473	LH0177441	LH0162248
Sample Date	22 Jan 2024	02 Dec 2022	19 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	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	102	98.5	94.2	95.4
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	<1	2	<1
Sodium	ppm	0	1	<1	0
Potassium	ppm	<1	<1	<1	<1



WEAR METALS

Iron	ppm	8	9	4	2
Copper	ppm	6	5	4	2
Lead	ppm	<1	<1	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	13	12	12	10
Magnesium	ppm	3	<1	1	<1
Zinc	ppm	10	10	9	8
Phosphorus	ppm	527	1720	1199	1264
Barium	ppm	0	0	0	0
Boron	ppm	31	195	302	318

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 oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: ABCBUR
 Unique No: 5733434
 Signed: Wes Davis
 Report Date: 16 Feb 2024



GRAPHS

