

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR 924C 053894-1049 - Diesel Engine

Sample No: LH0281099

Oil Type: PETRO CANADA 15W40



ABC RECYCLING
 750C JACKSON RD
 NANAIMO, BC
 CA V9X 1J2
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SAMPLE INFORMATION

Sample Number	LH0281099	LH0260514	LH0246831	LH0224964
Sample Date	18 Jan 2024	12 Jun 2023	21 Feb 2023	12 Oct 2022
Machine Hours	18474	17890	17297	16606
Oil Hours	584	593	691	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.5	13.8	13.6	13.8
Oxidation (PA)	%	63	65	67	67



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1.5	1.5	1.5	1.8
Nitration (PA)	%	71	73	78	78
Sulfation (PA)	%	62	62	70	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	6	6
Sodium	ppm	2	1	2	2
Potassium	ppm	<1	<1	0	0



WEAR METALS

Iron	ppm	23	21	22	25
Copper	ppm	1	2	2	2
Lead	ppm	2	2	3	3
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	2	2	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	61	62	64	63
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1098	1167	1178	1111
Magnesium	ppm	988	986	1027	1002
Zinc	ppm	1225	1278	1284	1235
Phosphorus	ppm	1036	1127	1143	1103
Barium	ppm	0	0	0	0
Boron	ppm	2	1	<1	1

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.

Depot: ABCNAN
 Unique No: 5720468
 Signed: Wes Davis
 Report Date: 26 Jan 2024



GRAPHS

