

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 063551 - Diesel Engine

Sample No: LH0260526

Oil Type: PETRO CANADA 15W40



SAMPLE INFORMATION

Sample Number	LH0260526	LH0218528	LH0224860	LH0226644
Sample Date	30 Jun 2023	20 Mar 2023	18 Nov 2022	09 Aug 2022
Machine Hours	17789	17189	16666	16175
Oil Hours	600	523	491	654
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ABC RECYCLING

750C JACKSON RD

NANAIMO, BC

CA V9X 1J2

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F:



OIL CONDITION

Visc @ 100°C	cSt	14.2	13.8	12.0	14.1
Oxidation (PA)	%	70	61	60	73



CONTAMINATION

Soot %	%	1.2	0.5	1.2	1.3
Nitration (PA)	%	79	65	73	86
Sulfation (PA)	%	63	62	61	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.7	<1.0
Silicon	ppm	6	4	5	5
Sodium	ppm	1	2	3	2
Potassium	ppm	<1	0	0	<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.



WEAR METALS

Iron	ppm	16	8	23	20
Copper	ppm	1	<1	2	2
Lead	ppm	1	<1	2	3
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	2	<1
Molybdenum	ppm	65	60	50	63
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1172	1124	892	1123
Magnesium	ppm	1077	987	806	1029
Zinc	ppm	1279	1207	1066	1275
Phosphorus	ppm	1120	1089	951	1030
Barium	ppm	0	0	0	0
Boron	ppm	2	1	1	1

Depot: ABCNAN

Unique No: 5605454

Signed: Wes Davis

Report Date: 07 Jul 2023



GRAPHS

