

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 042856-1006 - Diesel Engine

Sample No: LH0284071

Oil Type: PETRO CANADA 15W40



SAMPLE INFORMATION

Sample Number	LH0284071	LH0246939	LH0218530	LH0218519
Sample Date	18 Mar 2024	08 Feb 2023	26 Oct 2022	22 Jul 2022
Machine Hours	23561	22184	21760	21394
Oil Hours	250	22184	21760	370
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ABC RECYCLING

4318 TERMINAL PLACE
CAMPBELL RIVER, BC
CA V9H 1N6

Contact: Jordie Richmond
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OIL CONDITION

Visc @ 100°C	cSt	13.9	14.0	14.3	14.8
Oxidation (PA)	%	49	37	59	42



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.8	0.7	2.5	2.2
Nitration (PA)	%	48	47	73	57
Sulfation (PA)	%	50	56	66	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	1	7	7	6
Sodium	ppm	1	2	2	4
Potassium	ppm	0	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.



WEAR METALS

Iron	ppm	6	16	21	25
Copper	ppm	<1	<1	1	<1
Lead	ppm	0	<1	1	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	1	1	1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	58	60	58	57
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1045	1134	1083	1099
Magnesium	ppm	900	969	952	934
Zinc	ppm	1158	1227	1183	1188
Phosphorus	ppm	957	1108	1070	997
Barium	ppm	0	0	0	0
Boron	ppm	0	2	2	2

Depot: ABC431CAM
Unique No: 5749300
Signed: Kevin Marson
Report Date: 25 Mar 2024



GRAPHS

