

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 065053-1007 - Diesel Engine

Sample No: LH0274027
 Oil Type: IRVING 15W40



CHALEUR SAWMILLS L.P.
 1921 MAIN STREET
 BELLEDUNE, NB
 CA E8G 2H8
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SAMPLE INFORMATION

Sample Number	LH0274027	LH0180310	LH0123820	LH0194810
Sample Date	20 Dec 2023	29 Aug 2023	10 Jan 2023	29 Nov 2021
Machine Hours	30900	30500	30000	29492
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.2	14.0	13.8	14.6
Oxidation (PA)	%	47	58	54	55



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1.6	2	2	2.5
Nitration (PA)	%	73	85	87	90
Sulfation (PA)	%	56	65	67	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.8	<1.0	<1.0	<1.0
Silicon	ppm	6	6	9	6
Sodium	ppm	2	2	2	2
Potassium	ppm	<1	<1	<1	1



WEAR METALS

Iron	ppm	14	16	15	13
Copper	ppm	1	2	4	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	11	6	10	5
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1985	2138	2183	2088
Magnesium	ppm	100	54	112	69
Zinc	ppm	1078	1175	1120	1120
Phosphorus	ppm	939	1050	1036	981
Barium	ppm	0	0	0	0
Boron	ppm	42	25	32	30

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: CHABEL
 Unique No: 5697663
 Signed: Wes Davis
 Report Date: 22 Dec 2023



GRAPHS

