

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 14799 - Diesel Engine

Sample No: LH0194837

Oil Type: CHEVRON DELO 400 XSP 5W30



SAMPLE INFORMATION

Sample Number	LH0194837	LH0194631	LH0194627	LH0195017
Sample Date	04 Sep 2023	27 Jun 2023	04 Apr 2023	02 Feb 2023
Machine Hours	15000	14509	14000	13500
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	MARGINAL	SEVERE

CHALEUR SAWMILLS L.P.

1921 MAIN STREET

BELLEDUNE, NB

CA E8G 2H8

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OIL CONDITION

Visc @ 100°C	cSt	11.9	11.6	11.0	6.5
Oxidation (PA)	%	57	56	62	51



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	78	79	79	72
Sulfation (PA)	%	54	55	62	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	3.2	20.7
Silicon	ppm	7	7	8	8
Sodium	ppm	4	4	5	4
Potassium	ppm	3	2	0	2



WEAR METALS

Iron	ppm	4	4	4	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	2	2	1	1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	2	1	10	2
Nickel	ppm	0	<1	<1	0
Titanium	ppm	<1	1	2	2
Silver	ppm	<1	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1446	1364	1352	1071
Magnesium	ppm	600	669	698	486
Zinc	ppm	810	773	809	557
Phosphorus	ppm	777	729	772	554
Barium	ppm	0	0	0	0
Boron	ppm	39	48	49	46

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: CHABEL

Unique No: 5642364

Signed: Kevin Marson

Report Date: 11 Sep 2023



GRAPHS

