

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 139284-1253 - Diesel Engine

Sample No: LH0241892

Oil Type: SHELL ROTELLA T4 15W40



HUBERT & FILS

474 ROUTE 105
BOIS-FRANC, QC
CA J9E 3A9

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SAMPLE INFORMATION

Sample Number	LH0241892	LH0241868	LH0239949	LH0241859
Sample Date	01 Mar 2024	31 Oct 2023	04 Sep 2023	06 Jul 2023
Machine Hours	3900	2739	2265	1668
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.5	13.8	13.5	13.4
Oxidation (PA)	%	84	76	75	77



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	73	75	73	72
Sulfation (PA)	%	65	63	62	63
Glycol	%	NEG	0.0	0.0	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	9	6	7
Sodium	ppm	2	2	4	2
Potassium	ppm	2	6	11	3



WEAR METALS

Iron	ppm	3	3	4	4
Copper	ppm	2	2	2	6
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	2	1	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	3	<1	<1	5
Nickel	ppm	0	<1	0	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2046	2246	2222	1973
Magnesium	ppm	97	18	25	106
Zinc	ppm	1100	1151	1156	1100
Phosphorus	ppm	890	975	957	944
Barium	ppm	<1	0	<1	<1
Boron	ppm	108	105	95	94

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: HUBBOI
Unique No: 5750305
Signed: Wes Davis
Report Date: 28 Mar 2024



GRAPHS

