

LIEBHERR

CONSTRUCTION EQUIPMENT



[(341438)] LIEBHERR LH60C T19413-1528 - Diesel Engine

Sample No: LH0281007

Oil Type: PETRO CANADA SUPREME SYNTHETIC 5W40



SAMPLE INFORMATION

Sample Number	LH0281007	LH0269770	LH0224961	LH0224899
Sample Date	24 Jan 2024	21 Sep 2023	27 Oct 2022	13 May 2022
Machine Hours	8175	7642	6459	5497
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	MARGINAL	NORMAL	ABNORMAL	ABNORMAL

AltaSteel
 9401 34 St NW
 Edmonton, AB
 CA T6B 2X6
 Contact: Richard Bailey
 richard.bailey@altasteel.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.4	11.6	11.8	11.6
Oxidation (PA)	%	86	96	80	90



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	90	89	81	89
Sulfation (PA)	%	57	63	58	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	2	<1.0	2.2	2.1
Silicon	ppm	5	11	8	10
Sodium	ppm	3	5	4	4
Potassium	ppm	0	<1	0	<1



WEAR METALS

Iron	ppm	3	5	4	4
Copper	ppm	2	2	1	4
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	0	1	1	1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	60	64	57	59
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	893	804	867	833
Magnesium	ppm	1078	1148	1072	1189
Zinc	ppm	1175	1213	1200	1272
Phosphorus	ppm	981	993	1088	1106
Barium	ppm	0	<1	<1	<1
Boron	ppm	20	27	28	31

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The condition of the oil is acceptable for the time in service.

Depot: ALT940EDM
Unique No: 5748393
Signed: Wes Davis
Report Date: 21 Mar 2024

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GRAPHS

