

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH0286478

Oil Type: PETRO CANADA SUPREME 5W30



Sample Information

Sample Number	LH0286478	LH0281007	LH0269770	LH0224961
Sample Date	16 Apr 2024	24 Jan 2024	21 Sep 2023	27 Oct 2022
Machine Hours	8962	8175	7642	6459
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	MARGINAL	NORMAL	ABNORMAL

AltaSteel
 9401 34 St NW
 Edmonton, AB
 CA T6B 2X6
 Contact: Richard Bailey
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 T:
 F:



Oil Condition

Visc @ 100°C	cSt	11.8	12.4	11.6	11.8
Oxidation (PA)	%	103	86	96	80



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	96	90	89	81
Sulfation (PA)	%	65	57	63	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	2	<1.0	2.2
Silicon	ppm	7	5	11	8
Sodium	ppm	4	3	5	4
Potassium	ppm	0	0	<1	0

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	5	3	5	4
Copper	ppm	2	2	2	1
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	1	0	1	1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	61	60	64	57
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	850	893	804	867
Magnesium	ppm	1150	1078	1148	1072
Zinc	ppm	1229	1175	1213	1200
Phosphorus	ppm	1007	981	993	1088
Barium	ppm	0	0	<1	<1
Boron	ppm	24	20	27	28

Depot: ALT940EDM
Unique No: 5762673
Signed: Kevin Marson
Report Date: 18 Apr 2024



Graphs

