

LIEBHERR

CONSTRUCTION EQUIPMENT



[(341438) [575628]] LIEBHERR LH60C119413-1528 - Diesel En

Sample No: LH0269770

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH0269770	LH0224961	LH0224899	LH0210566
Sample Date	21 Sep 2023	27 Oct 2022	13 May 2022	24 Feb 2022
Machine Hours	7642	6459	5497	4915
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

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	11.6	11.8	11.6	12.2
Oxidation (PA)	%	96	80	90	49



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	89	81	89	55
Sulfation (PA)	%	63	58	65	48
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	2.2	2.1	<1.0
Silicon	ppm	11	8	10	9
Sodium	ppm	5	4	4	4
Potassium	ppm	<1	0	<1	<1



WEAR METALS

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



ADDITIVES

Calcium	ppm	804	867	833	847
Magnesium	ppm	1148	1072	1189	1184
Zinc	ppm	1213	1200	1272	1280
Phosphorus	ppm	993	1088	1106	1101
Barium	ppm	<1	<1	<1	0
Boron	ppm	27	28	31	42

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: ALT940EDM
Unique No: 5646498
Signed: Wes Davis
Report Date: 27 Sep 2023



GRAPHS

