

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH80C106718 - Diesel Engine

Sample No: LH0270354

Oil Type: PETRO CANADA 10W40



SAMPLE INFORMATION

Sample Number	LH0270354	LH0251351	LH0242315	LH0230878
Sample Date	24 Jul 2023	22 Mar 2023	19 Oct 2022	05 Jul 2022
Machine Hours	10592	10001	9132	8603
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

GERDAU AMERISTEEL

1 GERDAU COURT
 WHITBY, ON
 CA L1N 5T1
 Contact: Tyson Young
 tyoung@gerdauameristeel.com
 T: (905)668-8811
 F: (905)668-6469



OIL CONDITION

Visc @ 100°C	cSt	13.3	12.7	9.8	13.1
Oxidation (PA)	%	64	84	121	69



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	67	80	39	77
Sulfation (PA)	%	53	67	100	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	4.1	<1.0
Silicon	ppm	4	5	4	5
Sodium	ppm	1	2	<1	2
Potassium	ppm	0	<1	0	<1

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	4	7	2	3
Copper	ppm	<1	2	1	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	55	55	9	57
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1039	1045	249	1044
Magnesium	ppm	963	916	153	965
Zinc	ppm	1182	1193	871	1204
Phosphorus	ppm	1043	1070	747	990
Barium	ppm	0	0	0	0
Boron	ppm	3	<1	1	6

Depot: LAKWHI
 Unique No: 5617249
 Signed: Kevin Marson
 Report Date: 26 Jul 2023



GRAPHS

