

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60C106512-1528 - Diesel Engine

Sample No: LH0234437

Oil Type: PETRO CANADA SUPREME 5W30



Gerdau - Mandak Metal Processors Ltd.,
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SAMPLE INFORMATION

Sample Number	LH0234437	LH0250041	LH0150842	LH
Sample Date	12 Jun 2023	28 May 2023	01 Mar 2023	09 Nov 2022
Machine Hours	19187	18758	17907	16500
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.0	12.2	12.3	12.2
Oxidation (PA)	%	100	103	100	108



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	103	102	101	104
Sulfation (PA)	%	65	66	61	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	6	6	6
Sodium	ppm	5	5	4	5
Potassium	ppm	3	<1	<1	2



WEAR METALS

Iron	ppm	12	10	7	9
Copper	ppm	4	4	2	4
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	1	2	1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	62	62	63	61
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	951	942	927	908
Magnesium	ppm	1156	1163	1130	1135
Zinc	ppm	1301	1301	1273	1249
Phosphorus	ppm	1129	1155	1129	1104
Barium	ppm	<1	<1	<1	3
Boron	ppm	13	22	30	35

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: MANSEL
 Unique No: 5606267
 Signed: Wes Davis
 Report Date: 12 Jul 2023



GRAPHS

