

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 066027-1760 - Diesel Engine

Sample No: LH0225607
 Oil Type: DIESEL ENGINE OIL SAE 10W30



GENERAL RECYCLING INDUSTRIES LTD.
 4120 - 84 AVENUE NW
 EDMONTON, AB
 CA T6B 3H3
 Contact: Corey MacKay
 cmackay@trailco.ca
 T: (587)926-1610
 F: (780)485-4294



Sample Information

Sample Number	LH0225607	LH0225615	LH0225604	LH0225596
Sample Date	13 Apr 2024	09 Mar 2024	11 Jul 2023	17 Mar 2023
Machine Hours	3146	3888	2652	1969
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	MARGINAL	---	ABNORMAL	ABNORMAL



Oil Condition

Visc @ 100°C	cSt	10.9	11.1	10.9	10.7
Oxidation (PA)	%	63	63	66	69



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	50	54	58	66
Sulfation (PA)	%	54	53	57	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	2.2	2.3
Silicon	ppm	1	2	3	4
Sodium	ppm	1	2	2	2
Potassium	ppm	0	<1	<1	<1



Wear Metals

Iron	ppm	3	4	6	8
Copper	ppm	8	4	38	130
Lead	ppm	0	<1	2	5
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	55	57	57	56
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	995	1042	1021	1048
Magnesium	ppm	923	972	953	950
Zinc	ppm	1156	1175	1174	1185
Phosphorus	ppm	979	1004	1063	1058
Barium	ppm	<1	<1	<1	1
Boron	ppm	3	1	2	3

Diagnosis

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Antimony ppm levels are marginal. All other 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: GEN156EDM
 Unique No: 5776359
 Signed: Kevin Marson
 Report Date: 14 May 2024



Graphs

