

LIEBHERR

CONSTRUCTION EQUIPMENT



[(336345)] LIEBHERR L586 060438-1334 - Diesel Engine

Sample No: LH0288235

Oil Type: DIESEL ENGINE OIL SAE 40



Sample Information

Sample Number	LH0288235	LH0242722	LH	LH0234401
Sample Date	26 Apr 2024	14 Jan 2023	24 Sep 2022	08 Aug 2022
Machine Hours	7991	5019	6018	3993
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Bird's Hill Gravel and Stone Ltd.

1 Terracon Place

Winnipeg, MB

CA R2J 4B3

Contact: Joel Malkoske

Jmalkoske@glacialagg.ca

T: (204)663-0064

F:



Oil Condition

Visc @ 100°C	cSt	14.5	13.0	12.7	11.8
Oxidation (PA)	%	100	76	114	96



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0	0.4	0
Nitration (PA)	%	98	79	117	91
Sulfation (PA)	%	71	61	76	66
Glycol	%	NEG	NEG	NEG	0.0
Fuel	%	<1.0	<1.0	<1.0	1.5
Silicon	ppm	13	6	21	6
Sodium	ppm	3	2	6	4
Potassium	ppm	7	4	13	6

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	13	7	33	9
Copper	ppm	4	4	11	12
Lead	ppm	0	<1	1	<1
Tin	ppm	<1	<1	2	<1
Aluminum	ppm	6	2	5	1
Chromium	ppm	<1	<1	2	<1
Molybdenum	ppm	41	47	49	58
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	1443	1329	1428	911
Magnesium	ppm	698	810	839	1119
Zinc	ppm	1212	1199	1290	1208
Phosphorus	ppm	994	1052	1084	973
Barium	ppm	1	0	<1	1
Boron	ppm	32	14	6	14

Depot: BIRWIN

Unique No: 5773424

Signed: Wes Davis

Report Date: 30 Apr 2024



Graphs

