

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 071613-1760 - Diesel Engine

Sample No: LH0292408

Oil Type: PETRO CANADA SUPREME 5W30



Sample Information

Sample Number	LH0292408	LH0284819	LH0277096	LH0260010
Sample Date	22 Jun 2024	12 Feb 2024	14 Oct 2023	27 Jun 2023
Machine Hours	2202	1640	1054	519
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

BIRCH HILL CONSTRUCTION
 11 MCELROY ST.
 MONCTON, NB
 CA E1C 9T2
 Contact: Service Manager



Oil Condition

Visc @ 100°C	cSt	11.5	11.6	11.6	12.1
Oxidation (PA)	%	75	77	92	203

T:
F:



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	75	74	76	89
Sulfation (PA)	%	55	56	63	109
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.1
Silicon	ppm	6	6	8	12
Sodium	ppm	4	5	4	2
Potassium	ppm	<1	<1	<1	2

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	5	5	6	8
Copper	ppm	2	2	4	13
Lead	ppm	0	<1	<1	2
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	1	1	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	57	57	58	45
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	0	0	3
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	836	826	892	1348
Magnesium	ppm	1128	1083	1098	926
Zinc	ppm	1215	1159	1152	865
Phosphorus	ppm	1002	1002	970	794
Barium	ppm	<1	<1	3	19
Boron	ppm	35	35	38	105

Depot: BIRMON
 Unique No: 5802039
 Signed: Wes Davis
 Report Date: 28 Jun 2024



Graphs

