

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L526 058450-1558 - Diesel Engine

Sample No: LH0289589

Oil Type: PETRO CANADA SUPREME 5W30



Sample Information

Sample Number	LH0289589	LH0270145	LH0261293	LH0247232
Sample Date	15 Apr 2024	11 Oct 2023	21 Apr 2023	06 Dec 2022
Machine Hours	3938	3615	3178	2702
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	MARGINAL	NORMAL	NORMAL

CLOUTHIER VENTURES LTD.
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Oil Condition

Visc @ 100°C	cSt	12.0	11.8	13.6	12.7
Oxidation (PA)	%	75	76	63	78



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.5	1
Nitration (PA)	%	84	86	78	99
Sulfation (PA)	%	54	56	52	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	2.3	<1.0	<1.0
Silicon	ppm	8	6	4	8
Sodium	ppm	4	4	2	2
Potassium	ppm	1	<1	<1	3

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	33	21	27	45
Copper	ppm	3	2	2	7
Lead	ppm	<1	1	3	7
Tin	ppm	0	<1	<1	1
Aluminum	ppm	3	3	4	6
Chromium	ppm	<1	<1	1	2
Molybdenum	ppm	57	64	61	60
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	856	833	1184	1231
Magnesium	ppm	1080	1108	960	883
Zinc	ppm	1183	1199	1193	1155
Phosphorus	ppm	994	1000	1081	987
Barium	ppm	0	<1	0	0
Boron	ppm	34	29	5	4

Depot: CLOPEM
 Unique No: 5762997
 Signed: Wes Davis
 Report Date: 18 Apr 2024



Graphs

