

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 032719-1170 - Diesel Engine

Sample No: LHMC124413

Oil Type: COREY OIL 10W40



Sample Information

Sample Number	LHMC124413	LHMC122562	LHMC122581	LHMC122538
Sample Date	17 May 2024	27 Dec 2023	11 Jul 2023	09 Nov 2022
Machine Hours	0	6176	15070	13939
Oil Hours	500	250	0	307
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

GENESEE AGGREGATES

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Oil Condition

Visc @ 100°C	cSt	13.8	13.4	13.2	14.0
Base Number (BN)	mg KOH/g	9.6	7.4	8.1	10.7
Oxidation (PA)	%	54	63	63	58



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1	1.8	0.9	0.3
Nitration (PA)	%	62	86	83	57
Sulfation (PA)	%	53	61	56	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	6	5
Sodium	ppm	<1	0	3	2
Potassium	ppm	<1	2	2	1



Wear Metals

Iron	ppm	38	34	23	5
Copper	ppm	7	11	14	<1
Lead	ppm	1	2	2	<1
Tin	ppm	<1	1	1	<1
Aluminum	ppm	11	4	4	1
Chromium	ppm	2	1	1	<1
Molybdenum	ppm	60	60	60	59
Nickel	ppm	0	<1	<1	0
Titanium	ppm	<1	<1	1	4
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1



Additives

Calcium	ppm	1196	1004	1038	1091
Magnesium	ppm	1061	867	961	928
Zinc	ppm	1425	1147	1285	1267
Phosphorus	ppm	1130	1023	1050	1045
Barium	ppm	0	11	0	<1
Boron	ppm	2	1	6	16

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: GENMILLH
Unique No: 11049939
Signed: Wes Davis
Report Date: 30 May 2024



Graphs

