

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934 055585-1007 - Diesel Engine

Sample No: LHMC133210

Oil Type: MOBIL DELVAC 1300 SUPER 10W30



Sample Information

Sample Number	LHMC133210	LH0264441	LHMC73555	LHMC63547
Sample Date	24 Jun 2024	16 May 2024	29 Nov 2018	07 May 2013
Machine Hours	22431	14242	10955	2186
Oil Hours	0	0	0	100
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

BEHR IRON
2815 LIBERTY AVE.
CLINTON, IA
US 53732
Contact: SERVICE MANAGER



Oil Condition

Visc @ 100°C	cSt	12.1	11.4	15.18	15.13
Base Number (BN)	mg KOH/g	16.7	9.8	---	---
Oxidation (PA)	%	37	73	55	36

T:
F:



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.6	0.7	2.3	0.5
Nitration (PA)	%	81	48	73	42
Sulfation (PA)	%	40	60	63	42
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	9	17	4
Sodium	ppm	2	3	4	4
Potassium	ppm	1	2	2	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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



Wear Metals

Iron	ppm	9	5	15	8
Copper	ppm	0	0	2	<1
Lead	ppm	<1	<1	2	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	2	1	2	1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	3	42	7	42
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	<1	6	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	4590	1696	1816	1227
Magnesium	ppm	71	524	390	909
Zinc	ppm	1339	905	1119	1302
Phosphorus	ppm	1140	788	998	1112
Barium	ppm	0	0	0	0
Boron	ppm	228	71	24	<1

Depot: BEHCLI
Unique No: 11112859
Signed: Jonathan Hester
Report Date: 09 Jul 2024



Graphs

