

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 110225-1216 - Diesel Engine

Sample No: LH05999673

Oil Type: MOBIL DELVAC 1300 SUPER15W40



VERSO CORP - QUINNESEC MILL
 W6791 US HWY 2
 QUINNESEC, MI
 US 49876
 Contact: ERIC LARSON
 eric.larson@versoco.com
 T:
 F:



SAMPLE INFORMATION

Sample Number	LH05999673	LH05891742	LH05835719	LH05816816
Sample Date	05 Nov 2023	05 Jul 2023	01 May 2023	10 Apr 2023
Machine Hours	0	12764	12484	12270
Oil Hours	13239	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION



OIL CONDITION

Visc @ 100°C	cSt	11.5	11.2	11.6	12.0
Base Number (BN)	mg KOH/g	14.6	5.6	5.6	7.2
Oxidation (PA)	%	43	69	53	50



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	94	79	69	65
Sulfation (PA)	%	42	59	47	48
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	6	7	6
Sodium	ppm	1	2	<1	1
Potassium	ppm	0	1	0	1



WEAR METALS

Iron	ppm	4	4	2	3
Copper	ppm	0	2	<1	<1
Lead	ppm	0	1	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	2	4	2	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	4020	1238	1384	1221
Magnesium	ppm	87	645	750	640
Zinc	ppm	1193	754	873	789
Phosphorus	ppm	1051	652	744	686
Barium	ppm	0	0	0	3
Boron	ppm	222	46	88	90

Diagnosis

No corrective action is recommended at this time. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VERQUI
 Unique No: 10728033
 Signed: Jonathan Hester
 Report Date: 07 Nov 2023



GRAPHS

