

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 110225-1216 - Diesel Engine

Sample No: LH06048278

Oil Type: MOBIL DELVAC 1300 SUPER15W40



VERSO CORP - QUINNESEC MILL
 W6791 US HWY 2
 QUINNESEC, MI
 US 49876
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SAMPLE INFORMATION

Sample Number	LH06048278	LH05999673	LH05891742	LH05835719
Sample Date	01 Jan 2024	05 Nov 2023	05 Jul 2023	01 May 2023
Machine Hours	13471	0	12764	12484
Oil Hours	0	13239	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION



OIL CONDITION

Visc @ 100°C	cSt	11.2	11.5	11.2	11.6
Base Number (BN)	mg KOH/g	13.5	14.6	5.6	5.6
Oxidation (PA)	%	51	43	69	53



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	108	94	79	69
Sulfation (PA)	%	45	42	59	47
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	8	6	7
Sodium	ppm	2	1	2	<1
Potassium	ppm	<1	0	1	0



WEAR METALS

Iron	ppm	6	4	4	2
Copper	ppm	5	0	2	<1
Lead	ppm	<1	0	1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	2	4	2
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	2	0	<1	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	0	<1	0



ADDITIVES

Calcium	ppm	4044	4020	1238	1384
Magnesium	ppm	85	87	645	750
Zinc	ppm	1256	1193	754	873
Phosphorus	ppm	939	1051	652	744
Barium	ppm	0	0	0	0
Boron	ppm	209	222	46	88

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: 10808886
 Signed: Jonathan Hester
 Report Date: 02 Jan 2024



GRAPHS

