

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 120737-1216 - Diesel Engine

Sample No: LH0167296

Oil Type: CHEVRON URSA SUPER PLUS EC 15W40



STAIMAN RECYCLING

201 HEPBURN ST
WILLIAMSPORT, PA
US 17701

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SAMPLE INFORMATION

Sample Number	LH0167296	LH0173875	LHMC116392	LH0173877
Sample Date	04 Mar 2022	21 Jan 2022	04 Dec 2021	07 Oct 2021
Machine Hours	4542	4199	3856	3455
Oil Hours	343	343	401	359
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.9	13.1	13.1	13.1
Base Number (BN)	mg KOH/g	8.2	7.8	7.1	---
Oxidation (PA)	%	63	62	61	59



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	59	58	58	58
Sulfation (PA)	%	61	61	58	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	9	9	7
Sodium	ppm	0	<1	1	2
Potassium	ppm	0	<1	1	1



WEAR METALS

Iron	ppm	4	3	4	3
Copper	ppm	<1	<1	5	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	1	<1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	94	86	83	85
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	<1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1473	1421	1370	1373
Magnesium	ppm	464	392	391	406
Zinc	ppm	1134	1308	1219	1182
Phosphorus	ppm	957	1076	1050	1038
Barium	ppm	0	0	0	0
Boron	ppm	365	401	400	419

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: STAWILLH
Unique No: 9883843
Signed: Wes Davis
Report Date: 15 Mar 2022



GRAPHS

