

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 120737-1216 - Diesel Engine

Sample No: LHMC110889

Oil Type: CHEVRON URSA SUPER PLUS EC 15W40



STAIMAN RECYCLING
 201 HEPBURN ST
 WILLIAMSPORT, PA
 US 17701
 Contact: JOE MARKLEY
 jmarkleysr@staimanrecycling.com
 T: (570)419-5479
 F:



SAMPLE INFORMATION

Sample Number	LHMC110889	LH0173871	LH0173870	LH0173869
Sample Date	15 Apr 2021	06 Mar 2021	30 Jan 2021	14 Dec 2020
Machine Hours	2044	1713	1427	1058
Oil Hours	331	286	369	377
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.2	13.1	13.2	13.0
Oxidation (PA)	%	63	60	63	64



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	59	54	58	58
Sulfation (PA)	%	60	59	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	8	9
Sodium	ppm	2	2	2	<1
Potassium	ppm	<1	4	12	8



WEAR METALS

Iron	ppm	4	4	4	5
Copper	ppm	5	21	94	178
Lead	ppm	<1	1	<1	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	1	2	2	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	86	84	93	91
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	2	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1423	1435	1477	1400
Magnesium	ppm	405	412	444	422
Zinc	ppm	1231	1176	1095	1035
Phosphorus	ppm	1034	1009	965	903
Barium	ppm	0	0	<1	0
Boron	ppm	417	407	368	372

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 condition of the oil is acceptable for the time in service.

Depot: STAWILLH
 Unique No: 9515429
 Signed: Wes Davis
 Report Date: 25 May 2021



GRAPHS

