

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60C 1528-132602 - Diesel Engine

Sample No: LH0210064

Oil Type: CHEVRON URSA SUPER PLUS EC 15W40



SAMPLE INFORMATION

Sample Number	LH0210064	LH0210063	LH0210057	LH0210055
Sample Date	01 Jul 2023	20 May 2023	04 Apr 2023	22 Feb 2023
Machine Hours	4652	4342	4009	3654
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STAIMAN RECYCLING

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



OIL CONDITION

Visc @ 100°C	cSt	12.6	13.1	13.3	13.1
Base Number (BN)	mg KOH/g	6.8	6.8	7.1	7.8
Oxidation (PA)	%	59	59	60	56

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.



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	55	58	58	56
Sulfation (PA)	%	55	57	56	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	8	8	7
Sodium	ppm	1	2	<1	1
Potassium	ppm	2	3	2	0



WEAR METALS

Iron	ppm	3	3	3	2
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	1	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	3	2	0	1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	80	84	81	82
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1460	1576	1365	1411
Magnesium	ppm	390	445	382	414
Zinc	ppm	1255	1343	1218	1198
Phosphorus	ppm	1036	1104	1027	991
Barium	ppm	0	0	3	0
Boron	ppm	454	411	403	431

Depot: STAWILLH
Unique No: 10550025
Signed: Wes Davis
Report Date: 11 Jul 2023



GRAPHS

