

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60C 1528-132602 - Diesel Engine

Sample No: LH0210065

Oil Type: CHEVRON URSA SUPER PLUS EC 15W40



#### STAIMAN RECYCLING

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WILLIAMSPORT, PA  
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#### SAMPLE INFORMATION

Sample Number	LH0210065	LH0210064	LH0210063	LH0210057
Sample Date	12 Aug 2023	01 Jul 2023	20 May 2023	04 Apr 2023
Machine Hours	4949	4652	4342	4009
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 100°C	cSt	12.8	12.6	13.1	13.3
Base Number (BN)	mg KOH/g	6.7	6.8	6.8	7.1
Oxidation (PA)	%	54	59	59	60



#### CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	53	55	58	58
Sulfation (PA)	%	53	55	57	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	8	8	8
Sodium	ppm	1	1	2	<1
Potassium	ppm	2	2	3	2



#### WEAR METALS

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



#### ADDITIVES

Calcium	ppm	1472	1460	1576	1365
Magnesium	ppm	377	390	445	382
Zinc	ppm	1206	1255	1343	1218
Phosphorus	ppm	964	1036	1104	1027
Barium	ppm	0	0	0	3
Boron	ppm	459	454	411	403

#### 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: 10615408  
Signed: Wes Davis  
Report Date: 22 Aug 2023



### GRAPHS

