

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60C 1528-132602 - Diesel Engine

Sample No: LH0210066

Oil Type: CHEVRON URSA SUPER PLUS EC 15W40



#### SAMPLE INFORMATION

Sample Number	LH0210066	LH0210065	LH0210064	LH0210063
Sample Date	22 Sep 2023	12 Aug 2023	01 Jul 2023	20 May 2023
Machine Hours	5266	4949	4652	4342
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  
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F:



#### OIL CONDITION

Visc @ 100°C	cSt	13.1	12.8	12.6	13.1
Base Number (BN)	mg KOH/g	7.1	6.7	6.8	6.8
Oxidation (PA)	%	58	54	59	59

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



#### WEAR METALS

Iron	ppm	4	3	3	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	0	1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	0	1	3	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	82	80	80	84
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



#### ADDITIVES

Calcium	ppm	1398	1472	1460	1576
Magnesium	ppm	391	377	390	445
Zinc	ppm	1211	1206	1255	1343
Phosphorus	ppm	988	964	1036	1104
Barium	ppm	0	0	0	0
Boron	ppm	424	459	454	411

Depot: STAWILLH  
Unique No: 10673425  
Signed: Wes Davis  
Report Date: 03 Oct 2023



### GRAPHS

