

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60C 1528-132602 - Diesel Engine

Sample No: LH0210075

Oil Type: CHEVRON SUPREME MOTOR OIL 5W30



SAMPLE INFORMATION

Sample Number	LH0210075	LH0210073	LH0210066	LH0210065
Sample Date	22 Jan 2024	18 Nov 2023	22 Sep 2023	12 Aug 2023
Machine Hours	5938	5527	5266	4949
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STAIMAN RECYCLING

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WILLIAMSPORT, PA
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OIL CONDITION

Visc @ 100°C	cSt	11.7	13.4	13.1	12.8
Base Number (BN)	mg KOH/g	7.2	7.6	7.1	6.7
Oxidation (PA)	%	57	58	58	54



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	77	55	58	53
Sulfation (PA)	%	51	55	55	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	7	8	8
Sodium	ppm	0	<1	<1	1
Potassium	ppm	5	1	1	2



WEAR METALS

Iron	ppm	3	<1	4	3
Copper	ppm	1	<1	<1	<1
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	3	0	1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	6	81	82	80
Nickel	ppm	0	<1	0	0
Titanium	ppm	1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1306	1407	1398	1472
Magnesium	ppm	656	402	391	377
Zinc	ppm	810	1306	1211	1206
Phosphorus	ppm	646	1077	988	964
Barium	ppm	0	0	0	0
Boron	ppm	112	425	424	459

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: 10855885
Signed: Don Baldrige
Report Date: 31 Jan 2024



GRAPHS

