

LIEBHERR

CONSTRUCTION EQUIPMENT



[(348643)] LIEBHERR PR736LGP 018793-1155 - Diesel Engine

Sample No: LH0199301

Oil Type: SAE 0W40



SAMPLE INFORMATION

Sample Number	LH0199301	LH0199295	LH0199293	LH0199294
Sample Date	10 Oct 2023	06 Feb 2023	18 Oct 2022	04 Oct 2022
Machine Hours	2500	1978	1500	1725
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

COUNTY OF ST. PAUL NO. 19

5015 - 49 AVENUE

ST. PAUL, AB

CA T0A 3A4

Contact: DD SKAWRONSKI-MUNRO

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.3	12.2	13.4
Oxidation (PA)	%	137	86	170	81



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	88	84	85	73
Sulfation (PA)	%	89	68	99	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	10	9	8
Sodium	ppm	3	2	3	2
Potassium	ppm	<1	<1	<1	<1



WEAR METALS

Iron	ppm	7	6	6	4
Copper	ppm	10	5	27	3
Lead	ppm	2	<1	2	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	3	4	4	3
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	101	93	104	89
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	<1	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	2196	2331	2241	2231
Magnesium	ppm	14	16	15	15
Zinc	ppm	1146	1212	1116	1153
Phosphorus	ppm	996	1111	946	1074
Barium	ppm	<1	0	<1	0
Boron	ppm	57	62	73	71

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: COU501STP

Unique No: 5672607

Signed: Bill Quesnel

Report Date: 10 Nov 2023



GRAPHS

