

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH0199302

Oil Type: CO-OP 0W40 SYN DMO



SAMPLE INFORMATION

Sample Number	LH0199302	LH0199301	LH0199295	LH0199293
Sample Date	17 Jan 2024	10 Oct 2023	06 Feb 2023	18 Oct 2022
Machine Hours	2730	2500	1978	1500
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
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	12.7	12.8	13.3	12.2
Oxidation (PA)	%	147	137	86	170



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	80	88	84	85
Sulfation (PA)	%	88	89	68	99
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	10	9
Sodium	ppm	2	3	2	3
Potassium	ppm	1	<1	<1	<1

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.



WEAR METALS

Iron	ppm	4	7	6	6
Copper	ppm	2	10	5	27
Lead	ppm	<1	2	<1	2
Tin	ppm	0	0	<1	<1
Aluminum	ppm	3	3	4	4
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	102	101	93	104
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	<1	0	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	2141	2196	2331	2241
Magnesium	ppm	16	14	16	15
Zinc	ppm	1092	1146	1212	1116
Phosphorus	ppm	964	996	1111	946
Barium	ppm	0	<1	0	<1
Boron	ppm	108	57	62	73

Depot: COU501STP
 Unique No: 5721207
 Signed: Bill Quesnel
 Report Date: 30 Jan 2024

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GRAPHS

