

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L566 036511-1168 - Diesel Engine

Sample No: LH0278888

Oil Type: PETRO CANADA 10W30



SAMPLE INFORMATION

Sample Number	LH0278888	LH0257433	LH0239195	LH
Sample Date	21 Jan 2024	14 Sep 2023	07 Nov 2022	31 Oct 2020
Machine Hours	14008	13830	11757	9931
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Summit Aggregates
 2686 Greenfield Blvd.
 Ayr, ON
 CA N0B 1E0
 Contact: Greg .
 greg@summitagg.com
 T: (226)791-0161
 F:



OIL CONDITION

Visc @ 100°C	cSt	14.7	14.9	13.8	13.3
Oxidation (PA)	%	62	70	67	63



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1.9	2.7	1.6	1
Nitration (PA)	%	83	102	88	73
Sulfation (PA)	%	63	74	65	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	7	5
Sodium	ppm	2	4	3	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	38	59	55	24
Copper	ppm	3	7	3	1
Lead	ppm	<1	2	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	4	5	3	2
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	60	62	53	59
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1107	1364	1141	1073
Magnesium	ppm	928	822	922	979
Zinc	ppm	1157	1150	1136	1269
Phosphorus	ppm	979	1000	1035	1019
Barium	ppm	0	0	0	<1
Boron	ppm	5	30	6	3

Depot: SUMAYR
Unique No: 5711332
Signed: Wes Davis
Report Date: 23 Jan 2024

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GRAPHS

