

LIEBHERR

CONSTRUCTION EQUIPMENT



100881 - Diesel Engine

Sample No: LH0289628

Oil Type: PETRO CANADA 10W40



Sample Information

Sample Number	LH0289628	LH0278805	LH0153886	LH0153899
Sample Date	01 May 2024	20 Nov 2023	16 Jun 2023	31 Oct 2022
Machine Hours	6972	6420	5929	5427
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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Oil Condition

Visc @ 40°C	cSt	---	---	---	69.6
Visc @ 100°C	cSt	13.5	13.3	13.3	11.6
Viscosity Index (VI)	Scale	---	---	---	161
Oxidation (PA)	%	65	63	63	67

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.



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	72	70	68	62
Sulfation (PA)	%	52	52	51	55
Glycol	%	0.0	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.2
Silicon	ppm	5	6	6	8
Sodium	ppm	6	2	2	4
Potassium	ppm	15	0	<1	<1



Wear Metals

Iron	ppm	3	3	3	2
Copper	ppm	2	2	1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	1	1	1	<1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	58	59	56	52
Nickel	ppm	0	0	<1	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	1039	1089	1004	1032
Magnesium	ppm	965	992	977	1020
Zinc	ppm	1153	1226	1160	1185
Phosphorus	ppm	983	1023	1071	1085
Barium	ppm	0	<1	0	0
Boron	ppm	2	2	7	61

Depot: BAKOTT
Unique No: 5773809
Signed: Wes Davis
Report Date: 02 May 2024



Graphs

