

LIEBHERR

CONSTRUCTION EQUIPMENT



[(347073)] LIEBHERR R966 048149-1535 - Diesel Engine

Sample No: LH0274609

Oil Type: NOT GIVEN



SAMPLE INFORMATION

Sample Number	LH0274609	LH	---	---
Sample Date	14 Sep 2023	20 Jan 2022	---	---
Machine Hours	1959	637	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

Zancon Holdings Inc.
 415 Warren Road
 King City, ON
 CA L7B 1C4
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 T: (416)990-4582
 F:



OIL CONDITION

Visc @ 100°C	cSt	11.0	11.5	---	---
Oxidation (PA)	%	73	115	---	---



CONTAMINATION

Soot %	%	0	0	---	---
Nitration (PA)	%	69	57	---	---
Sulfation (PA)	%	58	76	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	1	0.6	---	---
Silicon	ppm	4	20	---	---
Sodium	ppm	2	3	---	---
Potassium	ppm	3	4	---	---



WEAR METALS

Iron	ppm	10	19	---	---
Copper	ppm	217	392	---	---
Lead	ppm	6	13	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	2	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	45	45	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	<1	3	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1346	1392	---	---
Magnesium	ppm	716	900	---	---
Zinc	ppm	1137	929	---	---
Phosphorus	ppm	952	802	---	---
Barium	ppm	2	29	---	---
Boron	ppm	23	94	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The condition of the oil is acceptable for the time in service.

Depot: ZANKIN
Unique No: 5643751
Signed: Bill Quesnel
Report Date: 18 Sep 2023



GRAPHS

