

LIEBHERR

CONSTRUCTION EQUIPMENT



808366 - Diesel Engine

Sample No: LH0274322

Oil Type: JOHN DEERE ENGINE OIL PLUS 50 II 10W30



SAMPLE INFORMATION

Sample Number	LH0274322	---	---	---
Sample Date	26 Oct 2023	---	---	---
Machine Hours	10456	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

American Iron and Metal
 2555 Sheffield Road
 Ottawa, ON
 CA K1B 3V6
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OIL CONDITION

Visc @ 100°C	cSt	13.8	---	---	---
Oxidation (PA)	%	84	---	---	---



CONTAMINATION

Soot %	%	0.1	---	---	---
Nitration (PA)	%	87	---	---	---
Sulfation (PA)	%	70	---	---	---
Glycol	%	0.0	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	10	---	---	---
Sodium	ppm	124	---	---	---
Potassium	ppm	57	---	---	---



WEAR METALS

Iron	ppm	40	---	---	---
Copper	ppm	6	---	---	---
Lead	ppm	2	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	5	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	206	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1605	---	---	---
Magnesium	ppm	713	---	---	---
Zinc	ppm	1008	---	---	---
Phosphorus	ppm	806	---	---	---
Barium	ppm	<1	---	---	---
Boron	ppm	38	---	---	---

Diagnosis

Check for low coolant level. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service (see recommendation).

Depot: BAKOTT
Unique No: 5670255
Signed: Kevin Marson
Report Date: 02 Nov 2023



GRAPHS

