



CONSTRUCTION EQUIPMENT

- DIESEL ENGINE



Sample No: VCP405669
Oil Type: JOHN DEERE ENGINE OIL PLUS 50 II 10W30
Job No:



STEPHEN HARTMAN EXCAVATING INC
 8554 W COUNTY RD 442
 MANISTIQUE, MI
 US 49854
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SAMPLE INFORMATION

Sample Number	VCP405669	---	---	---
Sample Date	12 Apr 2024	---	---	---
Machine Hours	2000	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



OIL CONDITION

Visc @ 100°C	cSt	█ 10.8	---	---	---
Base Number (BN)	mg KOH/g	█ 6.7	---	---	---
Oxidation (PA)	%	80	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	83	---	---	---
Sulfation (PA)	%	72	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 0	---	---	---



WEAR METALS

Iron	ppm	█ 9	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 259	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1446	---	---	---
Magnesium	ppm	█ 841	---	---	---
Zinc	ppm	█ 1078	---	---	---
Phosphorus	ppm	█ 883	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 76	---	---	---

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: STEMANMI
Unique No: 10993687
Signed: Angela Borella
Report Date: 25 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

