



CONSTRUCTION EQUIPMENT

HP77 JOHN DEERE HP 77 - DIESEL ENGINE



Sample No: VCP437773
Oil Type: CITGARD 15W40
Job No: HP77



SAMPLE INFORMATION

Sample Number	VCP437773	---	---	---
Sample Date	23 Jan 2024	---	---	---
Machine Hours	250	---	---	---
Oil Hours	250	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

MITCHELL & STARK CONSTRUCTION CO
 6001 Shirley St
 NAPLES, FL
 US 34109
 Contact: SERVICE MANAGER



OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	---	---	---
Base Number (BN)	mg KOH/g	█ 8.4	---	---	---
Oxidation (PA)	%	63	---	---	---

T: (239)597-2165
 F: (239)566-7865

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a components first oil change. 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 suitable for further service.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	60	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 6	---	---	---



WEAR METALS

Iron	ppm	█ 56	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 63	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1895	---	---	---
Magnesium	ppm	█ 442	---	---	---
Zinc	ppm	█ 1342	---	---	---
Phosphorus	ppm	█ 1126	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 5	---	---	---

Depot: MITNAP
Unique No: 10849244
Signed: Wes Davis
Report Date: 30 Jan 2024



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GRAPHS

