



CONSTRUCTION EQUIPMENT

SPM595386 MH EQUIP JOHN DEERE 1020 JOHN DEERE 1020 (S/N NOT GIVEN) DIESEL ENGINE



Sample No: VCP399651
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM595386 MH EQUIP



SAMPLE INFORMATION

Sample Number	VCP399651	VCP371743	---	---
Sample Date	12 Sep 2023	13 Jul 2022	---	---
Machine Hours	0	3439	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	SEVERE	---	---

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5000 INDUSTRIAL HWY
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OIL CONDITION

Visc @ 100°C	cSt	▲ 7	▲ 1.5	---	---
Base Number (BN)	mg KOH/g	■ 12.5	■ 17.4	---	---
Oxidation (PA)	%	■ 89	■ 47	---	---

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

Soot %	%	■ 0.1	■ 0.2	---	---
Nitration (PA)	%	■ 96	■ 133	---	---
Sulfation (PA)	%	■ 63	■ 35	---	---
Glycol	%	■ NEG	■ NEG	---	---
Fuel	%	● 10.5	● 17.7	---	---
Silicon	ppm	■ 12	■ 12	---	---
Sodium	ppm	▲ 291	▲ 224	---	---
Potassium	ppm	■ 9	■ 8	---	---



WEAR METALS

Iron	ppm	■ 38	▲ 66	---	---
Copper	ppm	■ 5	■ 7	---	---
Lead	ppm	■ 26	■ 21	---	---
Tin	ppm	■ 1	■ 3	---	---
Aluminum	ppm	■ 5	■ 10	---	---
Chromium	ppm	■ 2	■ 2	---	---
Molybdenum	ppm	■ 60	■ 128	---	---
Nickel	ppm	■ <1	■ 2	---	---
Titanium	ppm	■ 0	■ <1	---	---
Silver	ppm	■ 0	■ <1	---	---
Manganese	ppm	■ <1	■ 1	---	---
Vanadium	ppm	■ 0	■ <1	---	---



ADDITIVES

Calcium	ppm	■ 1219	■ 1551	---	---
Magnesium	ppm	■ 646	■ 54	---	---
Zinc	ppm	■ 1037	■ 595	---	---
Phosphorus	ppm	■ 865	■ 508	---	---
Barium	ppm	■ <1	■ 0	---	---
Boron	ppm	■ 38	■ 107	---	---

Depot: VOLVO8885
Unique No: 10658031
Signed: Don Baldrige
Report Date: 22 Sep 2023



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GRAPHS

