



CONSTRUCTION EQUIPMENT

JOHN DEERE 650 404213 - DIESEL ENGINE



Sample No: VCP406794
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP406794	---	---	---
Sample Date	28 Jun 2023	---	---	---
Machine Hours	1581	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

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 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
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OIL CONDITION

Visc @ 100°C	cSt	█ 15.0	---	---	---
Base Number (BN)	mg KOH/g	█ 7.3	---	---	---
Oxidation (PA)	%	108	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. 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.



CONTAMINATION

Soot %	%	█ 1.2	---	---	---
Nitration (PA)	%	119	---	---	---
Sulfation (PA)	%	83	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 10	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 6	---	---	---



WEAR METALS

Iron	ppm	▲ 61	---	---	---
Copper	ppm	▲ 95	---	---	---
Lead	ppm	● 149	---	---	---
Tin	ppm	▲ 4	---	---	---
Aluminum	ppm	█ 7	---	---	---
Chromium	ppm	█ 3	---	---	---
Molybdenum	ppm	163	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 2216	---	---	---
Magnesium	ppm	█ 618	---	---	---
Zinc	ppm	█ 1371	---	---	---
Phosphorus	ppm	█ 1047	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 23	---	---	---

Depot: VOLVO0090
Unique No: 10546917
Signed: Doug Bogart
Report Date: 07 Jul 2023



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GRAPHS

