



CONSTRUCTION EQUIPMENT

GOLF RENTAL VOLVO D3.3 VOLVO D3.3 (S/N NOT GIVEN) - DIESEL ENGINE



Sample No: VCP420016
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: GOLF RENTAL



SAMPLE INFORMATION

Sample Number	VCP420016	---	---	---
Sample Date	31 Aug 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

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 5151 DR MARTIN LUTHER KING BLVD
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OIL CONDITION

Visc @ 100°C	cSt	▲ 6.9	---	---	---
Base Number (BN)	mg KOH/g	■ 8.6	---	---	---
Oxidation (PA)	%	67	---	---	---

Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. 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 %	%	■ 0.2	---	---	---
Nitration (PA)	%	65	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	● 38.4	---	---	---
Silicon	ppm	■ 7	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ <1	---	---	---



WEAR METALS

Iron	ppm	■ 17	---	---	---
Copper	ppm	■ <1	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 29	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 1160	---	---	---
Magnesium	ppm	■ 385	---	---	---
Zinc	ppm	■ 792	---	---	---
Phosphorus	ppm	■ 649	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 38	---	---	---

Depot: VOLVO0090
Unique No: 10632423
Signed: Don Baldrige
Report Date: 06 Sep 2023



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GRAPHS

