



CONSTRUCTION EQUIPMENT

633493 VOLVO A45G 353505 - DIESEL ENGINE



Sample No: VCP432953
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 633493



SAMPLE INFORMATION

Sample Number	VCP432953	---	---	---
Sample Date	09 Nov 2023	---	---	---
Machine Hours	1583	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ORANGE COUNTY SOLID WASTE
 5901 YOUNG PINE ROAD
 ORLANDO, FL
 US 32829
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OIL CONDITION

Visc @ 100°C	cSt	▲ 9.8	---	---	---
Base Number (BN)	mg KOH/g	■ 3.6	---	---	---
Oxidation (PA)	%	87	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.9	---	---	---
Nitration (PA)	%	99	---	---	---
Sulfation (PA)	%	73	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 5.2	---	---	---
Silicon	ppm	▲ 32	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 3	---	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Valve wear is indicated. All other component wear rates are normal. Light fuel dilution occurring. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material. Fuel is present in the oil and is lowering the viscosity.

WEAR METALS

Iron	ppm	■ 63	---	---	---
Copper	ppm	■ 188	---	---	---
Lead	ppm	■ 4	---	---	---
Tin	ppm	■ 8	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ 4	---	---	---
Molybdenum	ppm	■ 78	---	---	---
Nickel	ppm	▲ 14	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	■ 2091	---	---	---
Magnesium	ppm	15	---	---	---
Zinc	ppm	■ 1109	---	---	---
Phosphorus	ppm	■ 914	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 9	---	---	---

Depot: ORAORL
Unique No: 10741296
Signed: Doug Bogart
Report Date: 04 Dec 2023



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GRAPHS

