



CONSTRUCTION EQUIPMENT

S50100686 VOLVO A45G 342542 - DIESEL ENGINE



Sample No: VCP436809
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: S50100686



SAMPLE INFORMATION

Sample Number	VCP436809	---	---	---
Sample Date	24 Jan 2024	---	---	---
Machine Hours	6815	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	MARGINAL	---	---	---

VCES- VOLVO CONSTRUCTION EQUIPMENT
12345 MAPLEVIEW STREET
LAKESIDE, CA
US 92040
Contact: Mark Stewart
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T: X
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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	---	---	---
Base Number (BN)	mg KOH/g	■ 9.0	---	---	---
Oxidation (PA)	%	72	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.5	---	---	---
Silicon	ppm	■ 7	---	---	---
Sodium	ppm	■ 6	---	---	---
Potassium	ppm	■ 5	---	---	---



WEAR METALS

Iron	ppm	■ 7	---	---	---
Copper	ppm	■ 3	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 42	---	---	---
Nickel	ppm	■ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 1605	---	---	---
Magnesium	ppm	■ 526	---	---	---
Zinc	ppm	■ 1109	---	---	---
Phosphorus	ppm	■ 951	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 49	---	---	---

Depot: VOLVO4488
Unique No: 10869226
Signed: Jonathan Hester
Report Date: 08 Feb 2024



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GRAPHS

