



CONSTRUCTION EQUIPMENT

646452 MOSAIC CO VOLVO A45G 352974 - DIESEL ENGINE



Sample No: VCP428688
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 646452 MOSAIC CO



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SAMPLE INFORMATION

Sample Number	VCP428688	---	---	---
Sample Date	14 Dec 2023	---	---	---
Machine Hours	3408	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 12.0	---	---	---
Base Number (BN)	mg KOH/g	■ 7.8	---	---	---
Oxidation (PA)	%	71	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.4	---	---	---
Nitration (PA)	%	74	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 1.6	---	---	---
Silicon	ppm	■ 5	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 0	---	---	---

WEAR METALS

Iron	ppm	■ 13	---	---	---
Copper	ppm	■ 27	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 1	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 49	---	---	---
Nickel	ppm	■ 3	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 1633	---	---	---
Magnesium	ppm	■ 641	---	---	---
Zinc	ppm	■ 1148	---	---	---
Phosphorus	ppm	■ 954	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 18	---	---	---

Diagnosis

Oil and filter 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. Confirm oil type.

Depot: VOLVO0093
Unique No: 10861620
Signed: Jonathan Hester
Report Date: 07 Feb 2024



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GRAPHS

