



CONSTRUCTION EQUIPMENT

X59675 SUPERIOR BROOM DT74J 823493 - DIESEL ENGINE



Sample No: VCP437444
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X59675



SAMPLE INFORMATION

Sample Number	VCP437444	---	---	---
Sample Date	29 May 2024	---	---	---
Machine Hours	637	---	---	---
Oil Hours	636	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 9.9	---	---	---
Base Number (BN)	mg KOH/g	■ 8.2	---	---	---
Oxidation (PA)	%	75	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Light fuel dilution occurring. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.2	---	---	---
Nitration (PA)	%	80	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 3.1	---	---	---
Silicon	ppm	■ 10	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 3	---	---	---



WEAR METALS

Iron	ppm	■ 33	---	---	---
Copper	ppm	■ 52	---	---	---
Lead	ppm	■ 12	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 7	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	● 241	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 4	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 1348	---	---	---
Magnesium	ppm	● 805	---	---	---
Zinc	ppm	■ 1015	---	---	---
Phosphorus	ppm	■ 849	---	---	---
Barium	ppm	■ 2	---	---	---
Boron	ppm	● 200	---	---	---

Depot: SCOSAI
Unique No: 11059535
Signed: Wes Davis
Report Date: 05 Jun 2024



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GRAPHS

