



CONSTRUCTION EQUIPMENT

VOLVO A25G 752598 - DIESEL ENGINE



Sample No: VCP419487
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP419487	VCP403701	---	---
Sample Date	26 May 2023	08 May 2023	---	---
Machine Hours	528	497	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.0	▲ 10.8	---	---
Base Number (BN)	mg KOH/g	■ 7.3	■ 6.5	---	---
Oxidation (PA)	%	61	60	---	---



CONTAMINATION

Soot %	%	■ 0.2	■ 0.1	---	---
Nitration (PA)	%	76	81	---	---
Sulfation (PA)	%	54	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.4	---	---
Silicon	ppm	▲ 47	▲ 57	---	---
Sodium	ppm	■ 3	■ 3	---	---
Potassium	ppm	■ 2	■ 3	---	---



WEAR METALS

Iron	ppm	■ 17	■ 19	---	---
Copper	ppm	▲ 423	▲ 454	---	---
Lead	ppm	■ 4	■ 6	---	---
Tin	ppm	■ 2	■ 2	---	---
Aluminum	ppm	■ 2	■ 5	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 80	■ 83	---	---
Nickel	ppm	■ <1	■ <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	■ <1	■ 1	---	---
Manganese	ppm	■ 4	■ 5	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 2132	■ 2203	---	---
Magnesium	ppm	85	12	---	---
Zinc	ppm	■ 1202	■ 1226	---	---
Phosphorus	ppm	■ 1012	■ 995	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 49	■ 43	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO0090
Unique No: 10496190
Signed: Don Baldrige
Report Date: 02 Jun 2023



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GRAPHS

