



CONSTRUCTION EQUIPMENT

X47388 VOLVO A25G 752635 - DIESEL ENGINE



Sample No: VCP427021
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X47388



SAMPLE INFORMATION

Sample Number	VCP427021	VCP407879	VCP395490	---
Sample Date	09 Aug 2023	16 May 2023	08 Mar 2023	---
Machine Hours	1369	772	388	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	N/A	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	█ 12.5	▲ 10.4	---
Base Number (BN)	mg KOH/g	█ 8.7	█ 9.0	█ 7.6	---
Oxidation (PA)	%	57	55	53	---

CONTAMINATION

Soot %	%	█ 0.2	█ 0.1	█ 0.1	---
Nitration (PA)	%	58	57	71	---
Sulfation (PA)	%	53	51	50	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	█ 0.4	---
Silicon	ppm	█ 5	█ 10	█ 40	---
Sodium	ppm	█ 1	█ 1	█ 1	---
Potassium	ppm	█ 1	█ 1	█ 5	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	█ 7	█ 6	█ 14	---
Copper	ppm	█ 7	█ 29	▲ 111	---
Lead	ppm	█ 0	█ 1	█ 1	---
Tin	ppm	█ <1	█ <1	█ 2	---
Aluminum	ppm	█ 2	█ <1	█ 3	---
Chromium	ppm	█ <1	█ 0	█ <1	---
Molybdenum	ppm	█ 62	█ 65	█ 83	---
Nickel	ppm	█ <1	█ 0	█ 1	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	█ <1	█ <1	█ <1	---
Manganese	ppm	█ <1	█ 1	█ 4	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	█ 1109	█ 1354	█ 2198	---
Magnesium	ppm	█ 990	785	9	---
Zinc	ppm	█ 1369	█ 1331	█ 1147	---
Phosphorus	ppm	█ 1161	█ 1075	█ 997	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 2	█ 9	█ 58	---

Depot: VOLVO6244
Unique No: 10605800
Signed: Don Baldrige
Report Date: 17 Aug 2023



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GRAPHS

