



CONSTRUCTION EQUIPMENT

VOLVO A25G 742176 - DIESEL ENGINE



Sample No: VCP439725
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP439725	VCP323084	VCP261236	---
Sample Date	13 Oct 2023	04 Oct 2021	03 Mar 2020	---
Machine Hours	2280	1985	1053	---
Oil Hours	0	1985	500	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

UNITED RENTALS

5357 NC-11 N
 WINTERVILLE, NC
 US 28590
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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.5	▲ 11.0	▲ 11.2	---
Base Number (BN)	mg KOH/g	■ 10.1	---	---	---
Oxidation (PA)	%	76	78	77	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.2	■ 0.2	■ 0.2	---
Nitration (PA)	%	55	58	58	---
Sulfation (PA)	%	59	60	59	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	▲ 3.2	▲ 4.9	▲ 7.0	---
Silicon	ppm	■ 5	■ 6	■ 9	---
Sodium	ppm	■ 2	■ 3	■ 2	---
Potassium	ppm	■ 1	■ 10	■ 0	---



WEAR METALS

Iron	ppm	■ 4	■ 5	■ 7	---
Copper	ppm	■ 3	■ 1	■ 10	---
Lead	ppm	■ 0	■ 0	■ <1	---
Tin	ppm	■ <1	■ 0	■ 0	---
Aluminum	ppm	■ 2	■ 1	■ 2	---
Chromium	ppm	■ 0	■ <1	■ <1	---
Molybdenum	ppm	■ 41	■ 38	■ 39	---
Nickel	ppm	■ <1	■ <1	■ <1	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	■ 0	0	■ <1	---
Manganese	ppm	■ <1	■ <1	■ <1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	■ 1570	■ 1683	■ 1568	---
Magnesium	ppm	■ 509	■ 535	■ 518	---
Zinc	ppm	■ 1122	■ 1007	■ 851	---
Phosphorus	ppm	■ 961	■ 888	■ 805	---
Barium	ppm	■ <1	■ 0	■ <1	---
Boron	ppm	■ 49	■ 45	■ 38	---

Depot: UNIWINVC
Unique No: 10794206
Signed: Sean Felton
Report Date: 22 Dec 2023



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GRAPHS

