



CONSTRUCTION EQUIPMENT

X48144 - DIESEL ENGINE



Sample No: VCP452392
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X48144



SAMPLE INFORMATION

Sample Number	VCP452392	VCP439329	VCP341426	---
Sample Date	08 May 2024	21 Mar 2024	23 Jun 2022	---
Machine Hours	6192	6188	4252	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	N/A	N/A	---
Sample Status	NORMAL	NORMAL	ATTENTION	---

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OIL CONDITION

Visc @ 100°C	cSt	■ 12.8	■ 12.7	● 12.4	---
Base Number (BN)	mg KOH/g	■ 11.0	■ 9.3	■ 10.7	---
Oxidation (PA)	%	76	81	86	---

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 suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.1	■ 0.5	■ 0.1	---
Nitration (PA)	%	42	66	61	---
Sulfation (PA)	%	60	63	64	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	▲ 3.5	---
Silicon	ppm	■ 8	■ 5	■ 6	---
Sodium	ppm	■ 2	■ 2	■ 2	---
Potassium	ppm	■ <1	■ 0	■ 0	---



WEAR METALS

Iron	ppm	■ 2	■ 13	■ 4	---
Copper	ppm	■ 1	■ 3	■ 3	---
Lead	ppm	■ 0	■ <1	■ <1	---
Tin	ppm	■ 0	■ 0	■ 1	---
Aluminum	ppm	■ <1	■ 1	■ 1	---
Chromium	ppm	■ 0	■ 0	■ 0	---
Molybdenum	ppm	■ 42	■ 40	■ 39	---
Nickel	ppm	■ 0	■ <1	■ <1	---
Titanium	ppm	0	0	0	---
Silver	ppm	■ 0	■ 0	■ 2	---
Manganese	ppm	■ 0	■ <1	■ <1	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	■ 1856	■ 1750	■ 1603	---
Magnesium	ppm	■ 569	■ 504	■ 457	---
Zinc	ppm	■ 1206	■ 1074	■ 1049	---
Phosphorus	ppm	■ 1018	■ 917	■ 853	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 68	■ 34	■ 52	---

Depot: VOLV00129
Unique No: 11029622
Signed: Wes Davis
Report Date: 14 May 2024



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GRAPHS

