



CONSTRUCTION EQUIPMENT

VOLVO EC480 31142 - DIESEL ENGINE



Sample No: VCP443762
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



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SAMPLE INFORMATION

Sample Number	VCP443762	VCP406886	---	---
Sample Date	23 Apr 2024	19 Apr 2023	---	---
Machine Hours	6042	5432	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	● 12.1	▲ 11.8	---	---
Base Number (BN)	mg KOH/g	■ 9.2	■ 8.0	---	---
Oxidation (PA)	%	84	78	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.2	■ 0.2	---	---
Nitration (PA)	%	71	64	---	---
Sulfation (PA)	%	61	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	▲ 2.2	---	---
Silicon	ppm	■ 9	■ 8	---	---
Sodium	ppm	■ 2	■ 2	---	---
Potassium	ppm	■ 0	■ 0	---	---



WEAR METALS

Iron	ppm	■ 12	■ 10	---	---
Copper	ppm	■ 1	■ 2	---	---
Lead	ppm	■ 0	■ 0	---	---
Tin	ppm	■ 0	■ <1	---	---
Aluminum	ppm	■ <1	■ 2	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 43	■ 42	---	---
Nickel	ppm	▲ 14	■ 2	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 0	■ <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 1862	■ 1437	---	---
Magnesium	ppm	■ 507	■ 473	---	---
Zinc	ppm	■ 1169	■ 957	---	---
Phosphorus	ppm	■ 971	■ 824	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 21	■ 25	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Moderate concentration of visible metal present. Valve wear is indicated. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO0096
Unique No: 10994127
Signed: Jonathan Hester
Report Date: 26 Apr 2024



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GRAPHS

