



CONSTRUCTION EQUIPMENT

4195DR VOLVO EC480EL 310995 - DIESEL ENGINE



Sample No: VCP404923
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 4195DR



SAMPLE INFORMATION

Sample Number	VCP404923	VCP367111	---	---
Sample Date	16 Aug 2023	04 Nov 2022	---	---
Machine Hours	5093	4064	---	---
Oil Hours	500	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---



OIL CONDITION

Visc @ 100°C	cSt	12.0	▲ 12.4	---	---
Base Number (BN)	mg KOH/g	6.8	■ 10.9	---	---
Oxidation (PA)	%	60	90	---	---



CONTAMINATION

Soot %	%	0.1	■ 0.1	---	---
Nitration (PA)	%	68	70	---	---
Sulfation (PA)	%	52	66	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	2.6	■ 1.4	---	---
Silicon	ppm	8	■ 10	---	---
Sodium	ppm	8	■ 1	---	---
Potassium	ppm	<1	■ 3	---	---



WEAR METALS

Iron	ppm	6	■ 10	---	---
Copper	ppm	3	■ 5	---	---
Lead	ppm	0	■ <1	---	---
Tin	ppm	<1	■ <1	---	---
Aluminum	ppm	1	■ 3	---	---
Chromium	ppm	<1	■ 0	---	---
Molybdenum	ppm	70	■ 40	---	---
Nickel	ppm	0	■ 0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	■ 0	---	---
Manganese	ppm	<1	■ <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1751	■ 1702	---	---
Magnesium	ppm	494	■ 486	---	---
Zinc	ppm	1185	■ 1119	---	---
Phosphorus	ppm	989	■ 903	---	---
Barium	ppm	0	■ 0	---	---
Boron	ppm	15	■ 21	---	---



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Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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.

Depot: VOLVO0022
Unique No: 10609106
Signed: Wes Davis
Report Date: 22 Aug 2023



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GRAPHS

