



CONSTRUCTION EQUIPMENT

408376 VOLVO EC480E 314662 - DIESEL ENGINE



Sample No: VCP450303
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 408376



SAMPLE INFORMATION

Sample Number	VCP450303	VCP352893	VCP297747	---
Sample Date	14 Jun 2024	15 Mar 2023	08 Jun 2022	---
Machine Hours	3017	2394	1272	---
Oil Hours	500	794	472	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

STRONGCO EQUIPMENT-EDMONTON

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	■ 12.2	■ 12.8	---
Oxidation (PA)	%	80	65	72	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0	■ 0	■ 0	---
Nitration (PA)	%	75	71	76	---
Sulfation (PA)	%	61	56	65	---
Glycol	%	NEG	NEG	■ 0.0	---
Fuel	%	■ 0.3	■ 1.1	<1.0	---
Silicon	ppm	■ 6	■ 4	■ 6	---
Sodium	ppm	■ 2	■ 2	■ 3	---
Potassium	ppm	■ <1	■ 0	■ 2	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	■ 8	■ 9	■ 6	---
Copper	ppm	■ 9	■ 12	■ 202	---
Lead	ppm	■ 0	■ 1	■ 6	---
Tin	ppm	■ 0	■ <1	■ <1	---
Aluminum	ppm	■ 1	■ 2	■ <1	---
Chromium	ppm	■ <1	■ 0	■ 0	---
Molybdenum	ppm	■ 33	7	■ 9	---
Nickel	ppm	■ 2	■ <1	■ <1	---
Titanium	ppm	<1	■ <1	<1	---
Silver	ppm	■ 0	■ 0	0	---
Manganese	ppm	■ <1	■ <1	■ <1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	■ 1600	2243	■ 1891	---
Magnesium	ppm	■ 541	88	■ 156	---
Zinc	ppm	■ 994	■ 1093	■ 1066	---
Phosphorus	ppm	■ 840	■ 1006	■ 897	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 38	6	■ 88	---

Depot: VOLVO3908

Unique No: 5801646

Signed: Kevin Marson

Report Date: 28 Jun 2024



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GRAPHS

