



CONSTRUCTION EQUIPMENT

700977 DETROIT IRON VOLVO EC350 3 10600 - DIESEL ENGINE



Sample No: VCP443766
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 700977 DETROIT IRON



SAMPLE INFORMATION

Sample Number	VCP443766	VCP431347	VCP354145	---
Sample Date	19 Apr 2024	22 Sep 2023	27 Apr 2022	---
Machine Hours	3002	6495	4492	---
Oil Hours	500	500	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	MARGINAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	■ 12.4	■ 12.5	---
Base Number (BN)	mg KOH/g	■ 8.4	■ 8.0	■ 9.6	---
Oxidation (PA)	%	60	60	64	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.4	■ 0.1	■ 0.1	---
Nitration (PA)	%	68	60	69	---
Sulfation (PA)	%	53	52	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	■ 0.4	<1.0	<1.0	---
Silicon	ppm	■ 6	■ 3	■ 2	---
Sodium	ppm	■ 1	■ <1	■ 0	---
Potassium	ppm	■ 2	■ 0	■ 0	---



WEAR METALS

Iron	ppm	■ 21	■ 4	■ 3	---
Copper	ppm	■ 4	■ 5	■ 1	---
Lead	ppm	■ 1	■ <1	■ <1	---
Tin	ppm	■ 1	■ 1	■ <1	---
Aluminum	ppm	■ 2	■ 2	■ <1	---
Chromium	ppm	■ <1	■ 0	■ <1	---
Molybdenum	ppm	■ 60	■ 59	■ 55	---
Nickel	ppm	■ 1	■ 0	■ <1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	■ 0	■ 0	■ <1	---
Manganese	ppm	■ <1	■ <1	■ <1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	■ 1051	■ 1023	■ 1136	---
Magnesium	ppm	■ 974	■ 986	■ 916	---
Zinc	ppm	■ 1239	■ 1239	■ 1213	---
Phosphorus	ppm	■ 1031	■ 994	■ 1026	---
Barium	ppm	■ 2	■ 0	■ 0	---
Boron	ppm	■ 0	■ 0	■ 0	---

Depot: VOLVO2990
Unique No: 10996685
Signed: Jonathan Hester
Report Date: 30 Apr 2024



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GRAPHS

