



CONSTRUCTION EQUIPMENT

645486 GLE VOLVO EC380 3 14125 - DIESEL ENGINE



Sample No: VCP431415
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 645486 GLE



SAMPLE INFORMATION

Sample Number	VCP431415	VCP366136	---	---
Sample Date	07 Dec 2023	19 Sep 2022	---	---
Machine Hours	4377	2888	---	---
Oil Hours	500	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	MARGINAL	ATTENTION	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	▲ 11.2	---	---
Base Number (BN)	mg KOH/g	■ 7.2	■ 11.1	---	---
Oxidation (PA)	%	67	88	---	---

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. 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	---	---
Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	78	73	---	---
Sulfation (PA)	%	57	64	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.5	---	---
Silicon	ppm	■ 4	■ 11	---	---
Sodium	ppm	■ 1	■ 3	---	---
Potassium	ppm	■ 2	■ 2	---	---



WEAR METALS

Iron	ppm	■ 4	■ 15	---	---
Copper	ppm	■ 5	■ 8	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	■ 2	■ 3	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 62	■ 37	---	---
Nickel	ppm	■ <1	■ 0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	■ 0	0	---	---
Manganese	ppm	■ <1	■ 2	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	■ 1091	■ 1825	---	---
Magnesium	ppm	■ 921	■ 406	---	---
Zinc	ppm	■ 1276	■ 1030	---	---
Phosphorus	ppm	■ 1033	■ 864	---	---
Barium	ppm	■ <1	■ 0	---	---
Boron	ppm	■ 10	■ 41	---	---

Depot: VOLVO2990
Unique No: 10794189
Signed: Jonathan Hester
Report Date: 21 Dec 2023



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GRAPHS

