



CONSTRUCTION EQUIPMENT

RENT VOLVO EC750EL 314074 - DIESEL ENGINE



Sample No: VCP360563
Oil Type: MOBIL 15W40
Job No: RENT



SAMPLE INFORMATION

Sample Number	VCP360563	VCP283381	VCP133707	---
Sample Date	19 Jan 2023	01 Jul 2022	12 Jul 2021	---
Machine Hours	2963	1976	477	---
Oil Hours	500	500	477	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	NORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.0	■ 13.5	■ 13.0	---
Base Number (BN)	mg KOH/g	■ 7.1	■ 8.5	---	---
Oxidation (PA)	%	67	69	59	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.9	■ 1.1	■ 0.9	---
Nitration (PA)	%	77	83	66	---
Sulfation (PA)	%	60	64	59	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	▲ 7.6	<1.0	<1.0	---
Silicon	ppm	■ 7	■ 11	■ 31	---
Sodium	ppm	■ 3	■ 2	■ 2	---
Potassium	ppm	■ <1	■ 0	■ 2	---

WEAR METALS

Iron	ppm	■ 33	■ 19	■ 37	---
Copper	ppm	■ 4	■ 13	▲ 182	---
Lead	ppm	■ 4	■ 2	■ 2	---
Tin	ppm	■ 1	■ 1	■ 6	---
Aluminum	ppm	■ <1	■ 0	■ 0	---
Chromium	ppm	■ <1	■ <1	■ 1	---
Molybdenum	ppm	■ 67	■ 59	■ 7	---
Nickel	ppm	■ 2	■ 3	■ 2	---
Titanium	ppm	<1	0	5	---
Silver	ppm	■ 0	<1	0	---
Manganese	ppm	■ <1	■ <1	■ 1	---
Vanadium	ppm	0	0	<1	---

ADDITIVES

Calcium	ppm	■ 1386	■ 1389	■ 2240	---
Magnesium	ppm	■ 741	■ 926	114	---
Zinc	ppm	■ 1214	■ 1195	■ 968	---
Phosphorus	ppm	■ 932	■ 961	■ 849	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 85	■ 12	■ 11	---

Diagnosis

We advise that you check the fuel injection system. 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 a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VOLVO0077
Unique No: 10311326
Signed: Jonathan Hester
Report Date: 31 Jan 2023



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GRAPHS

