



CONSTRUCTION EQUIPMENT

X59223 VOLVO EC300ELR 317660 - DIESEL ENGINE



Sample No: VCP442704

Oil Type: {unknown}

Job No: X59223



SAMPLE INFORMATION

Sample Number	VCP442704	---	---	---
Sample Date	09 Feb 2024	---	---	---
Machine Hours	476	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



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OIL CONDITION

Visc @ 100°C	cSt	█ 11.4	---	---	---
Base Number (BN)	mg KOH/g	█ 6.3	---	---	---
Oxidation (PA)	%	█ 63	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	█ 75	---	---	---
Sulfation (PA)	%	█ 54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	█ 0.3	---	---	---
Silicon	ppm	█ 26	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 16	---	---	---



WEAR METALS

Iron	ppm	█ 14	---	---	---
Copper	ppm	▲ 333	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 85	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 2	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 2133	---	---	---
Magnesium	ppm	█ 74	---	---	---
Zinc	ppm	█ 1195	---	---	---
Phosphorus	ppm	█ 939	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 50	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: SCOSAI
Unique No: 10884961
Signed: Don Baldrige
Report Date: 20 Feb 2024



CONSTRUCTION EQUIPMENT



GRAPHS

