



CONSTRUCTION EQUIPMENT

SW1032172 STEFFEY VOLVO EC200EL 314540 - DIESEL ENGINE



Sample No: VCP442956
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1032172 STEFFEY



SAMPLE INFORMATION

Sample Number	VCP442956	VCP441204	VCP353842	---
Sample Date	13 Apr 2024	12 Nov 2023	03 Jun 2022	---
Machine Hours	1657	1052	590	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ATTENTION	ABNORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	11.8	10.7	13.3	---
Base Number (BN)	mg KOH/g	7.0	4.8	6.4	---
Oxidation (PA)	%	82	84	55	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. 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. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.7	---
Nitration (PA)	%	85	83	69	---
Sulfation (PA)	%	63	65	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	0.8	<1.0	---
Silicon	ppm	7	23	17	---
Sodium	ppm	2	<1	3	---
Potassium	ppm	0	4	4	---



WEAR METALS

Iron	ppm	8	15	51	---
Copper	ppm	59	200	16	---
Lead	ppm	2	2	<1	---
Tin	ppm	2	3	4	---
Aluminum	ppm	2	3	21	---
Chromium	ppm	0	<1	5	---
Molybdenum	ppm	64	93	3	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	3	3	---
Vanadium	ppm	<1	0	<1	---



ADDITIVES

Calcium	ppm	1461	2075	2358	---
Magnesium	ppm	717	170	63	---
Zinc	ppm	1167	1195	1105	---
Phosphorus	ppm	924	953	904	---
Barium	ppm	0	0	0	---
Boron	ppm	30	24	3	---

Depot: VOLVO6174
Unique No: 10989317
Signed: Jonathan Hester
Report Date: 23 Apr 2024



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GRAPHS

