



CONSTRUCTION EQUIPMENT

SPM608090 MILBURN DE VOLVO EC480EHR 391005 - DIESEL ENGINE



Sample No: VCP427349
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM608090 MILBURN DE



SAMPLE INFORMATION

Sample Number	VCP427349	VCP404089	VCP279719	---
Sample Date	19 Oct 2023	18 Jan 2023	27 Jul 2020	---
Machine Hours	2724	2336	507	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ATTENTION	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	11.9	11.9	12.5	---
Base Number (BN)	mg KOH/g	8.3	8.7	---	---
Oxidation (PA)	%	63	61	59	---



CONTAMINATION

Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	65	64	67	---
Sulfation (PA)	%	54	52	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	1.1	<1.0	---
Silicon	ppm	6	6	21	---
Sodium	ppm	3	2	2	---
Potassium	ppm	2	0	0	---



WEAR METALS

Iron	ppm	7	6	12	---
Copper	ppm	23	5	421	---
Lead	ppm	<1	<1	3	---
Tin	ppm	<1	<1	0	---
Aluminum	ppm	2	<1	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	58	57	7	---
Nickel	ppm	<1	<1	2	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	0	<1	2	---
Vanadium	ppm	<1	0	<1	---



ADDITIVES

Calcium	ppm	1027	1156	2405	---
Magnesium	ppm	945	873	97	---
Zinc	ppm	1179	1161	1013	---
Phosphorus	ppm	1000	942	890	---
Barium	ppm	0	0	0	---
Boron	ppm	0	3	5	---

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 component wear rates are normal. 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: VOLVO8885
Unique No: 10712816
Signed: Sean Felton
Report Date: 30 Oct 2023



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GRAPHS

