



CONSTRUCTION EQUIPMENT

A11436 JMC VOLVO ECR58E 210814 - DIESEL ENGINE



Sample No: VCP399123
Oil Type: MOBIL 15W40
Job No: A11436 JMC



SAMPLE INFORMATION

Sample Number	VCP399123	VCP296037	---	---
Sample Date	03 Nov 2023	18 Dec 2020	---	---
Machine Hours	1410	465	---	---
Oil Hours	500	465	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

HOFFMAN EQUIPMENT - LIONVILLE
120 GORDON DRIVE
LIONVILLE, PA
US 19341
Contact: JIM FEHR
jim.fehr@hoffmanequip.com
T: (610)363-9200
F: (610)594-0829



OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	█ 13.5	---	---
Base Number (BN)	mg KOH/g	█ 6.4	---	---	---
Oxidation (PA)	%	█ 104	52	---	---



CONTAMINATION

Soot %	%	█ 0.3	█ 0.1	---	---
Nitration (PA)	%	█ 106	72	---	---
Sulfation (PA)	%	█ 71	58	---	---
Glycol	%	█ NEG	NEG	---	---
Fuel	%	█ <1.0	<1.0	---	---
Silicon	ppm	█ 7	█ 12	---	---
Sodium	ppm	█ 4	█ 4	---	---
Potassium	ppm	█ 2	█ 3	---	---



WEAR METALS

Iron	ppm	█ 26	█ 17	---	---
Copper	ppm	▲ 30	▲ 192	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ 3	█ 3	---	---
Chromium	ppm	█ <1	█ 1	---	---
Molybdenum	ppm	█ 49	█ 8	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	<1	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1863	█ 2800	---	---
Magnesium	ppm	█ 483	█ 16	---	---
Zinc	ppm	█ 1192	█ 1107	---	---
Phosphorus	ppm	█ 915	█ 897	---	---
Barium	ppm	█ 7	█ 0	---	---
Boron	ppm	█ 22	█ 4	---	---

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. The copper level has decreased, but is still abnormal. 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: VOLVO8879
Unique No: 10737796
Signed: Don Baldrige
Report Date: 14 Nov 2023



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GRAPHS

