



CONSTRUCTION EQUIPMENT

595382 FORT IRON VOLVO EC480 314276 - DIESEL ENGINE



Sample No: VCP435350
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 595382 FORT IRON



SAMPLE INFORMATION

Sample Number	VCP435350	VCP392570	VCP365083	---
Sample Date	30 Aug 2023	27 Dec 2022	09 Aug 2022	---
Machine Hours	2932	2449	2006	---
Oil Hours	500	500	400	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	SEVERE	ATTENTION	NORMAL	---

ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
 US 48165
 Contact: PAUL CONZ
 paul.conz@altg.com
 T: (313)348-8861
 F: (248)356-2029



OIL CONDITION

Visc @ 100°C	cSt	▲ 11.9	▲ 12.2	■ 12.5	---
Base Number (BN)	mg KOH/g	■ 7.7	■ 8.0	■ 9.3	---
Oxidation (PA)	%	61	57	66	---



CONTAMINATION

Water	%	◆ 1.62	---	---	---
Soot %	%	■ 0.1	■ 0.2	■ 0.1	---
Nitration (PA)	%	76	73	75	---
Sulfation (PA)	%	53	52	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	■ 3.9	■ 0.8	<1.0	---
Silicon	ppm	■ 8	■ 11	■ 11	---
Sodium	ppm	■ 3	■ 1	■ 1	---
Potassium	ppm	■ <1	■ 1	■ 2	---



WEAR METALS

Iron	ppm	■ 12	■ 10	■ 8	---
Copper	ppm	■ 2	■ 2	■ 5	---
Lead	ppm	■ 0	■ 1	■ <1	---
Tin	ppm	■ <1	■ <1	■ 1	---
Aluminum	ppm	■ 1	■ 1	■ <1	---
Chromium	ppm	■ <1	■ <1	■ <1	---
Molybdenum	ppm	■ 61	■ 51	■ 51	---
Nickel	ppm	■ 2	■ 2	■ 1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	■ 0	■ 0	0	---
Manganese	ppm	■ <1	■ <1	■ <1	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	■ 1157	■ 1527	■ 1280	---
Magnesium	ppm	■ 1005	879	761	---
Zinc	ppm	■ 1329	■ 1353	■ 1159	---
Phosphorus	ppm	■ 1078	■ 1060	■ 945	---
Barium	ppm	■ 0	■ 0	■ <1	---
Boron	ppm	■ <1	■ 2	■ 7	---

Diagnosis

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test. All component wear rates are normal. Fuel content negligible. There is a high concentration of water present in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VOLVO2990
Unique No: 10632442
Signed: Jonathan Hester
Report Date: 07 Sep 2023



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GRAPHS

