



CONSTRUCTION EQUIPMENT

X18603 APAC VOLVO EC480EL 314326 - DIESEL ENGINE



Sample No: VCP445352
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X18603 APAC



SCOTT EQUIPMENT COMPANY LLC - Jackson
 3860 I-55 South
 JACKSON, MS
 US 39212
 Contact: DWIGHT MCDUGAL
 DMCDUGAL@SCOTTCOMPANIES.COM
 T:
 F: (601)326-3359

SAMPLE INFORMATION

Sample Number	VCP445352	VCE67891D	---	---
Sample Date	10 May 2024	26 Sep 2023	---	---
Machine Hours	5655	4957	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	ABNORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	● 11.7	● 11.1	---	---
Base Number (BN)	mg KOH/g	■ 6.1	■ 7.6	---	---
Oxidation (PA)	%	■ 92	■ 85	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	■ 101	■ 63	---	---
Sulfation (PA)	%	■ 71	■ 64	---	---
Glycol	%	▲ 0.10	NEG	---	---
Fuel	%	<1.0	■ 1.3	---	---
Silicon	ppm	▲ 28	■ 14	---	---
Sodium	ppm	▲ 955	▲ 43	---	---
Potassium	ppm	▲ 420	▲ 40	---	---

WEAR METALS

Iron	ppm	■ 36	▲ 196	---	---
Copper	ppm	■ 10	■ 5	---	---
Lead	ppm	■ 3	■ 1	---	---
Tin	ppm	■ 2	■ <1	---	---
Aluminum	ppm	■ 3	■ 4	---	---
Chromium	ppm	■ <1	■ 1	---	---
Molybdenum	ppm	■ 61	■ 39	---	---
Nickel	ppm	■ 2	■ <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 1	■ 2	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	■ 1697	■ 1408	---	---
Magnesium	ppm	■ 431	■ 396	---	---
Zinc	ppm	■ 1076	■ 1014	---	---
Phosphorus	ppm	■ 875	■ 820	---	---
Barium	ppm	■ <1	■ 0	---	---
Boron	ppm	■ 9	■ 12	---	---

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is positive. Elemental level of silicon (Si) above normal. The oil viscosity is lower than normal. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO8771
Unique No: 11031023
Signed: Don Baldrige
Report Date: 17 May 2024



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GRAPHS

