



CONSTRUCTION EQUIPMENT

X18684 APAC BLACKHAW VOLVO A40G 353050 - DIESEL ENGINE



Sample No: VCP444882
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X18684 APAC BLACKHAW



SAMPLE INFORMATION

Sample Number	VCP444882	VCP445348	---	---
Sample Date	10 Jun 2024	25 Mar 2024	---	---
Machine Hours	3897	3497	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	SEVERE	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.3	█ 12.6	---	---
Base Number (BN)	mg KOH/g	█ 9.6	█ 7.6	---	---
Oxidation (PA)	%	81	95	---	---

Diagnosis

We advise that you check for the source of the coolant leak. 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. Fuel content negligible. Test for glycol is positive. There is a high concentration of glycol present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.4	---	---
Nitration (PA)	%	68	120	---	---
Sulfation (PA)	%	66	81	---	---
Glycol	%	▲ 0.10	▲ 0.10	---	---
Fuel	%	█ 0.3	<1.0	---	---
Silicon	ppm	█ 14	▲ 36	---	---
Sodium	ppm	● 450	▲ 2068	---	---
Potassium	ppm	▲ 34	▲ 138	---	---



WEAR METALS

Iron	ppm	█ 10	█ 25	---	---
Copper	ppm	█ 9	█ 20	---	---
Lead	ppm	█ <1	█ 2	---	---
Tin	ppm	█ 1	█ 2	---	---
Aluminum	ppm	█ 4	● 6	---	---
Chromium	ppm	█ <1	█ 2	---	---
Molybdenum	ppm	█ 41	█ 47	---	---
Nickel	ppm	█ 2	█ 7	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	█ 1626	█ 1700	---	---
Magnesium	ppm	█ 469	█ 439	---	---
Zinc	ppm	█ 1054	█ 1084	---	---
Phosphorus	ppm	█ 816	█ 760	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 32	█ 18	---	---

Depot: VOLVO8771
Unique No: 11077126
Signed: Wes Davis
Report Date: 19 Jun 2024



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GRAPHS

