



CONSTRUCTION EQUIPMENT

X18497 APAC VOLVO A40G 353145 - DIESEL ENGINE



Sample No: VCP443670
Oil Type: PETROL 15W40
Job No: X18497 APAC



SAMPLE INFORMATION

Sample Number	VCP443670	VCP428631	---	---
Sample Date	16 Apr 2024	14 Feb 2024	---	---
Machine Hours	3358	2899	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.4	█ 12.2	---	---
Base Number (BN)	mg KOH/g	█ 10.0	█ 10.1	---	---
Oxidation (PA)	%	81	80	---	---

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Exhaust valve wear is indicated. 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 suitable for further service.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.1	---	---
Nitration (PA)	%	58	59	---	---
Sulfation (PA)	%	62	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 0.5	---	---
Silicon	ppm	█ 7	█ 8	---	---
Sodium	ppm	█ 1	█ 2	---	---
Potassium	ppm	█ 2	█ 1	---	---

WEAR METALS

Iron	ppm	█ 8	█ 7	---	---
Copper	ppm	█ 5	█ 2	---	---
Lead	ppm	█ 2	█ 0	---	---
Tin	ppm	█ 2	█ <1	---	---
Aluminum	ppm	█ 3	█ 4	---	---
Chromium	ppm	█ 1	█ <1	---	---
Molybdenum	ppm	█ 42	█ 43	---	---
Nickel	ppm	▲ 9	█ 1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ <1	█ 0	---	---
Manganese	ppm	1	█ 0	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1676	█ 1573	---	---
Magnesium	ppm	█ 471	█ 502	---	---
Zinc	ppm	█ 1057	█ 1089	---	---
Phosphorus	ppm	█ 963	█ 926	---	---
Barium	ppm	█ 0	█ 10	---	---
Boron	ppm	█ 52	█ 51	---	---

Depot: VOLVO8771
Unique No: 10982789
Signed: Sean Felton
Report Date: 23 Apr 2024



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GRAPHS

