



CONSTRUCTION EQUIPMENT

SWA41168 VOLVO A45G 353583 - DIESEL ENGINE



Sample No: VCP443535
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWA41168



SAMPLE INFORMATION

Sample Number	VCP443535	VCP417639	VCP406564	---
Sample Date	21 Mar 2024	06 Feb 2024	18 Dec 2023	---
Machine Hours	741	640	572	---
Oil Hours	0	140	60	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	NORMAL	NORMAL	ATTENTION	---

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OIL CONDITION

Visc @ 100°C	cSt	■ 12.4	■ 11.0	● 11.2	---
Base Number (BN)	mg KOH/g	■ 10.7	■ 9.3	■ 9.4	---
Oxidation (PA)	%	78	75	74	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.1	■ 0.1	■ 0.1	---
Nitration (PA)	%	45	51	46	---
Sulfation (PA)	%	61	59	59	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	■ 0.7	---
Silicon	ppm	■ 4	■ 8	■ 7	---
Sodium	ppm	■ 2	■ 3	■ 3	---
Potassium	ppm	■ 0	■ 0	■ 1	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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.

WEAR METALS

Iron	ppm	■ 4	■ 6	■ 5	---
Copper	ppm	■ 22	■ 81	■ 67	---
Lead	ppm	■ 0	■ 0	■ 0	---
Tin	ppm	■ 0	■ 1	■ 1	---
Aluminum	ppm	■ <1	■ 1	■ 1	---
Chromium	ppm	■ 0	■ <1	■ <1	---
Molybdenum	ppm	■ 38	■ 44	■ 45	---
Nickel	ppm	■ <1	■ 1	■ 1	---
Titanium	ppm	■ 0	0	■ 0	---
Silver	ppm	■ 0	■ 0	■ 0	---
Manganese	ppm	■ 0	<1	■ <1	---
Vanadium	ppm	0	0	<1	---

ADDITIVES

Calcium	ppm	■ 1761	■ 1636	■ 1764	---
Magnesium	ppm	■ 483	■ 429	■ 428	---
Zinc	ppm	■ 1100	■ 918	■ 964	---
Phosphorus	ppm	■ 958	792	■ 844	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 58	■ 59	■ 67	---

Depot: VOLVO8885
Unique No: 10941523
Signed: Jonathan Hester
Report Date: 27 Mar 2024



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GRAPHS

