



CONSTRUCTION EQUIPMENT

VOLVO A40G 352957 - DIESEL ENGINE



Sample No: VCP446911
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP446911	VCP436707	VCP387382	---
Sample Date	21 Feb 2024	10 Jan 2024	14 Sep 2023	---
Machine Hours	2575	3420	2036	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.4	12.8	---
Base Number (BN)	mg KOH/g	9.0	6.0	7.6	---
Oxidation (PA)	%	80	84	84	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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	NEG	---
Soot %	%	0.2	0.4	0.3	---
Nitration (PA)	%	68	86	78	---
Sulfation (PA)	%	61	64	63	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	0.5	<1.0	---
Silicon	ppm	7	6	10	---
Sodium	ppm	1	<1	2	---
Potassium	ppm	2	<1	1	---



WEAR METALS

Iron	ppm	11	10	13	---
Copper	ppm	5	13	13	---
Lead	ppm	<1	2	<1	---
Tin	ppm	2	<1	2	---
Aluminum	ppm	2	7	3	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	51	45	56	---
Nickel	ppm	4	8	6	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	1	1	<1	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	1464	1508	1655	---
Magnesium	ppm	457	618	498	---
Zinc	ppm	1013	1186	1049	---
Phosphorus	ppm	847	885	871	---
Barium	ppm	1	0	0	---
Boron	ppm	26	0	14	---

Depot: VOLVO0090
Unique No: 10899673
Signed: Wes Davis
Report Date: 28 Feb 2024



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GRAPHS

