



CONSTRUCTION EQUIPMENT

VOLVO A45G 352841 - DIESEL ENGINE



Sample No: VCP449249
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP449249	VCP445943	VCP420052	---
Sample Date	12 Jul 2024	18 Mar 2024	22 Nov 2023	---
Machine Hours	4401	3993	3353	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ATTENTION	ATTENTION	---

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.4	12.4	---
Base Number (BN)	mg KOH/g	7.5	8.9	9.2	---
Oxidation (PA)	%	80	79	76	---

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 %	%	0.8	0.6	0.6	---
Nitration (PA)	%	87	72	71	---
Sulfation (PA)	%	64	60	60	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	10	10	7	---
Sodium	ppm	3	2	2	---
Potassium	ppm	0	0	0	---



WEAR METALS

Iron	ppm	17	12	10	---
Copper	ppm	2	<1	2	---
Lead	ppm	0	<1	<1	---
Tin	ppm	0	0	1	---
Aluminum	ppm	6	6	3	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	46	44	47	---
Nickel	ppm	2	2	3	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	0	<1	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	1868	1792	1658	---
Magnesium	ppm	534	497	563	---
Zinc	ppm	1184	1096	1069	---
Phosphorus	ppm	979	947	964	---
Barium	ppm	0	0	0	---
Boron	ppm	14	33	25	---

Depot: VOLVO0090
Unique No: 11130122
Signed: Wes Davis
Report Date: 20 Jul 2024



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VOLVO GRAPHS

