



CONSTRUCTION EQUIPMENT

VOLVO A40G 352489 - DIESEL ENGINE



Sample No: VCP449533
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP449533	VCP433533	VCP343148	VCP323370
Sample Date	16 May 2024	13 Dec 2023	04 Nov 2021	28 Jun 2021
Machine Hours	7080	6270	0	1606
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.2	12.5	12.8	12.6
Base Number (BN)	mg KOH/g	9.1	9.4	---	---
Oxidation (PA)	%	74	81	85	88



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	63	68	77	73
Sulfation (PA)	%	57	60	64	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.5	<1.0	<1.0	<1.0
Silicon	ppm	4	4	16	7
Sodium	ppm	1	1	2	2
Potassium	ppm	3	1	<1	0



WEAR METALS

Iron	ppm	5	4	10	10
Copper	ppm	2	<1	7	▲ 39
Lead	ppm	<1	0	1	2
Tin	ppm	1	<1	2	2
Aluminum	ppm	2	2	8	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	49	48	46	42
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	<1	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1577	1608	1699	1600
Magnesium	ppm	558	518	489	474
Zinc	ppm	1122	1093	1045	1088
Phosphorus	ppm	971	908	916	901
Barium	ppm	0	0	0	0
Boron	ppm	37	32	31	36

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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.

Depot: VOLVO0090
Unique No: 11035290
Signed: Wes Davis
Report Date: 23 May 2024



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GRAPHS

