



CONSTRUCTION EQUIPMENT

VOLVO A40G 352785 - DIESEL ENGINE



Sample No: VCP441089
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP441089	VCP363289	VCP335772	VCP344758
Sample Date	19 Jan 2024	07 Sep 2023	28 Dec 2021	15 Oct 2021
Machine Hours	4101	3605	1133	699
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	12.3	12.4	12.7	10.7
Base Number (BN)	mg KOH/g	9.3	9.2	10	---
Oxidation (PA)	%	79	72	82	65



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.2	0.3
Nitration (PA)	%	63	58	63	67
Sulfation (PA)	%	60	57	64	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.5
Silicon	ppm	4	5	7	23
Sodium	ppm	0	3	3	2
Potassium	ppm	0	<1	<1	2



WEAR METALS

Iron	ppm	3	6	10	24
Copper	ppm	<1	2	20	66
Lead	ppm	<1	<1	<1	3
Tin	ppm	<1	<1	2	5
Aluminum	ppm	4	3	<1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	49	49	49	64
Nickel	ppm	1	2	<1	1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	1
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1571	1932	1625	1746
Magnesium	ppm	498	532	479	395
Zinc	ppm	1064	1230	1085	1230
Phosphorus	ppm	908	1005	894	1021
Barium	ppm	0	0	0	0
Boron	ppm	31	26	45	65

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.

Depot: VOLVO0090
Unique No: 10846870
Signed: Wes Davis
Report Date: 25 Jan 2024



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GRAPHS

