



CONSTRUCTION EQUIPMENT

VOLVO A45G 752 116 - DIESEL ENGINE



Sample No: VCP451439
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP451439	VCP445908	VCP431854	VCP422408
Sample Date	05 Jun 2024	07 Mar 2024	25 Jan 2024	05 Dec 2023
Machine Hours	8539	8163	7893	7520
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.5	12.8	14.0
Base Number (BN)	mg KOH/g	9.5	10.0	7.0	8.1
Oxidation (PA)	%	69	74	44	42



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	52	48	57	45
Sulfation (PA)	%	56	57	46	44
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	3	2
Sodium	ppm	<1	<1	<1	0
Potassium	ppm	1	2	2	0



WEAR METALS

Iron	ppm	4	3	2	<1
Copper	ppm	<1	<1	0	2
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	2	1	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	44	41	13	12
Nickel	ppm	<1	<1	1	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1519	1796	2056	1939
Magnesium	ppm	535	479	181	129
Zinc	ppm	1065	1150	1069	1042
Phosphorus	ppm	866	1043	928	865
Barium	ppm	0	0	0	0
Boron	ppm	43	61	10	9

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: 11073569
Signed: Wes Davis
Report Date: 12 Jun 2024



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GRAPHS

