



CONSTRUCTION EQUIPMENT

VOLVO A45G 353220 - DIESEL ENGINE



Sample No: VCP437569
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP437569	VCP455332	VCP420506	VCP426530
Sample Date	26 Apr 2024	22 Mar 2024	22 Nov 2023	26 Jul 2023
Machine Hours	3589	3496	2849	2142
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.3	12.6	12.4
Base Number (BN)	mg KOH/g	10.0	9.3	9.2	9.4
Oxidation (PA)	%	74	79	80	75

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	NEG
Soot %	%	0.2	0.5	0.7	0.4
Nitration (PA)	%	45	67	68	58
Sulfation (PA)	%	58	60	62	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.5
Silicon	ppm	4	5	5	5
Sodium	ppm	2	2	2	3
Potassium	ppm	0	0	0	<1



WEAR METALS

Iron	ppm	4	11	9	8
Copper	ppm	<1	<1	2	5
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	1	<1
Aluminum	ppm	2	6	3	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	40	43	48	48
Nickel	ppm	0	2	2	2
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1742	1783	1693	1777
Magnesium	ppm	511	489	501	543
Zinc	ppm	1118	1084	1061	1138
Phosphorus	ppm	956	938	947	939
Barium	ppm	0	0	0	0
Boron	ppm	54	28	24	42

Depot: VOLVO0090
Unique No: 11006048
Signed: Wes Davis
Report Date: 01 May 2024



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GRAPHS

