



CONSTRUCTION EQUIPMENT

VOLVO A45G 353251 - DIESEL ENGINE



Sample No: VCP455494
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP455494	VCP445834	VCP437751	VCP436270
Sample Date	04 May 2024	12 Mar 2024	25 Jan 2024	20 Dec 2023
Machine Hours	3988	3625	3274	3045
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.7	12.8	12.3
Base Number (BN)	mg KOH/g	9.0	9.2	9.8	10.0
Oxidation (PA)	%	71	70	66	78

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	0.2	0.1	0.2
Nitration (PA)	%	60	58	47	57
Sulfation (PA)	%	57	56	54	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	3	4
Sodium	ppm	2	2	2	2
Potassium	ppm	2	0	2	2



WEAR METALS

Iron	ppm	3	4	2	3
Copper	ppm	<1	<1	0	2
Lead	ppm	1	0	<1	1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	1	1	2	2
Chromium	ppm	0	0	0	0
Molybdenum	ppm	42	48	51	46
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1614	1354	1390	1565
Magnesium	ppm	524	654	718	500
Zinc	ppm	1100	1096	1177	1103
Phosphorus	ppm	931	923	1019	956
Barium	ppm	0	0	0	0
Boron	ppm	46	27	41	51

Depot: VOLVO0090
Unique No: 11016908
Signed: Wes Davis
Report Date: 08 May 2024



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VOLVO GRAPHS

