



CONSTRUCTION EQUIPMENT

VOLVO A45G 352808 - DIESEL ENGINE



Sample No: VCP412141
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP412141	VCP420585	VCP344115	VCP343055
Sample Date	22 Aug 2023	25 Jul 2023	23 Jan 2022	15 Nov 2021
Machine Hours	3368	3280	0	542
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.7	12.5	12.9
Base Number (BN)	mg KOH/g	10.2	9.6	11.3	---
Oxidation (PA)	%	73	78	83	76

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

Soot %	%	0.2	0.7	0.2	0.1
Nitration (PA)	%	44	68	57	44
Sulfation (PA)	%	58	63	65	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	9	9
Sodium	ppm	1	3	2	3
Potassium	ppm	1	0	<1	<1



WEAR METALS

Iron	ppm	3	13	9	6
Copper	ppm	12	94	2	4
Lead	ppm	0	2	<1	<1
Tin	ppm	<1	1	1	<1
Aluminum	ppm	2	3	4	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	47	47	45	46
Nickel	ppm	0	2	2	2
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1698	1767	1733	1775
Magnesium	ppm	546	554	523	496
Zinc	ppm	1167	1127	1046	1038
Phosphorus	ppm	955	921	954	1002
Barium	ppm	0	0	0	0
Boron	ppm	70	34	58	77

Depot: VOLVO0090
Unique No: 10629137
Signed: Wes Davis
Report Date: 31 Aug 2023



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VOLVO GRAPHS

