



CONSTRUCTION EQUIPMENT

225985 IAA GRAHAM VOLVO L90H 624285 - DIESEL ENGINE



Sample No: VCP368589
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 225985 IAA GRAHAM



SAMPLE INFORMATION

Sample Number	VCP368589	VCP441946	VCP403979	VCP350043
Sample Date	26 Apr 2024	24 Jan 2024	13 Jun 2023	28 Jan 2022
Machine Hours	11082	0	0	6287
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.8	14.3	14.3
Base Number (BN)	mg KOH/g	10.2	9.5	8.0	10.1
Oxidation (PA)	%	87	92	115	115

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 %	%	0.6	0.8	1.5	1.5
Nitration (PA)	%	78	94	117	118
Sulfation (PA)	%	64	63	76	78
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	10	9	9
Sodium	ppm	2	6	3	0
Potassium	ppm	1	1	<1	<1



WEAR METALS

Iron	ppm	12	12	39	34
Copper	ppm	2	1	2	2
Lead	ppm	0	1	1	1
Tin	ppm	<1	0	1	1
Aluminum	ppm	4	7	7	8
Chromium	ppm	<1	1	2	2
Molybdenum	ppm	42	42	45	50
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1695	1831	1967	2106
Magnesium	ppm	505	552	593	612
Zinc	ppm	1140	1148	1384	1195
Phosphorus	ppm	983	977	1060	1121
Barium	ppm	0	0	0	0
Boron	ppm	36	21	22	30

Depot: VOLVO1271
Unique No: 11015843
Signed: Wes Davis
Report Date: 07 May 2024



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VOLVO GRAPHS

