



CONSTRUCTION EQUIPMENT

225986 IAA GRAHAM VOLVO L90H 624296 - DIESEL ENGINE



Sample No: VCP368584
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 225986 IAA GRAHAM



SAMPLE INFORMATION

Sample Number	VCP368584	VCP368571	VCP344838	VCP299914
Sample Date	26 Apr 2024	25 May 2023	24 Jan 2022	12 Mar 2021
Machine Hours	7549	6749	5572	4997
Oil Hours	0	500	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	12.8	13.3	13.7
Base Number (BN)	mg KOH/g	9.4	10.4	10.8	---
Oxidation (PA)	%	80	85	100	104

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 %	%	0.4	0.4	0.6	0.7
Nitration (PA)	%	69	68	93	95
Sulfation (PA)	%	61	64	70	72
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	6	9	7
Sodium	ppm	2	2	3	3
Potassium	ppm	2	0	3	0



WEAR METALS

Iron	ppm	16	11	19	15
Copper	ppm	1	0	1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	6	0	9	3
Chromium	ppm	1	<1	1	1
Molybdenum	ppm	43	41	45	43
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1681	1818	1934	1799
Magnesium	ppm	510	548	575	529
Zinc	ppm	1147	1271	1104	1155
Phosphorus	ppm	985	996	1052	988
Barium	ppm	0	0	0	0
Boron	ppm	35	35	35	32

Depot: VOLVO1271
Unique No: 11015861
Signed: Wes Davis
Report Date: 07 May 2024



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VOLVO GRAPHS

