



CONSTRUCTION EQUIPMENT

IAA VOLVO L90H 624427 - DIESEL ENGINE



Sample No: VKC0000835
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: IAA



SAMPLE INFORMATION

Sample Number	VKC0000835	VKC0000754	VKC0000463	VKC0000576
Sample Date	22 Nov 2023	21 Feb 2023	11 Oct 2022	14 Jul 2022
Machine Hours	11010	9758	9065	8520
Oil Hours	500	250	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.5	14.1	14.4	14.5
Base Number (BN)	mg KOH/g	10.7	10.5	11.6	11.6
Oxidation (PA)	%	86	92	94	92

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 %	%	1.1	1.1	1.3	1
Nitration (PA)	%	78	90	96	83
Sulfation (PA)	%	64	67	70	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	8	6	5
Sodium	ppm	2	4	1	<1
Potassium	ppm	<1	0	0	1



WEAR METALS

Iron	ppm	13	25	19	14
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	4	5	3	4
Chromium	ppm	<1	2	1	<1
Molybdenum	ppm	41	47	53	39
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1762	1926	1893	1883
Magnesium	ppm	554	561	577	488
Zinc	ppm	1237	1191	1167	1144
Phosphorus	ppm	1015	975	967	954
Barium	ppm	0	0	0	0
Boron	ppm	19	30	25	28

Depot: GWVKAN
Unique No: 10768741
Signed: Wes Davis
Report Date: 05 Dec 2023



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GRAPHS

