



CONSTRUCTION EQUIPMENT

20632 IAA VOLVO L90H 624525 - DIESEL ENGINE



Sample No: VCP424946
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 20632 IAA



SAMPLE INFORMATION

Sample Number	VCP424946	VCP405166	VCP370284	VCP335636
Sample Date	24 Jul 2023	30 Mar 2023	16 Dec 2022	11 Jul 2022
Machine Hours	9426	8960	8634	8035
Oil Hours	0	8960	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.5	13.7	15.0
Base Number (BN)	mg KOH/g	10.4	10.1	10.5	8.1
Oxidation (PA)	%	80	83	87	103

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 %	%	0.8	0.8	1.1	1.6
Nitration (PA)	%	73	73	93	113
Sulfation (PA)	%	62	65	67	73
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	8	8	9
Sodium	ppm	3	2	2	3
Potassium	ppm	<1	<1	2	0



WEAR METALS

Iron	ppm	12	13	17	29
Copper	ppm	<1	<1	1	2
Lead	ppm	0	0	<1	2
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	5	6	7	9
Chromium	ppm	<1	1	1	2
Molybdenum	ppm	46	43	42	42
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1774	1862	1737	1914
Magnesium	ppm	586	596	574	552
Zinc	ppm	1216	1268	1133	1167
Phosphorus	ppm	995	1027	928	931
Barium	ppm	0	0	0	0
Boron	ppm	33	36	29	22

Depot: VOLV00124
Unique No: 10575267
Signed: Wes Davis
Report Date: 27 Jul 2023



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VOLVO GRAPHS

