



CONSTRUCTION EQUIPMENT

787921 VOLVO L90H 624974 - DIESEL ENGINE



Sample No: VCP332010
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 787921



SAMPLE INFORMATION

Sample Number	VCP332010	VCP344064	VCP316398	VCP323489
Sample Date	08 Dec 2021	10 Nov 2021	12 Aug 2021	18 Jun 2021
Machine Hours	5030	4883	4475	4127
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.4	13.0	13.3
Base Number (BN)	mg KOH/g	11	---	---	---
Oxidation (PA)	%	78	76	73	81



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.4	0.4	0.5
Nitration (PA)	%	47	58	51	58
Sulfation (PA)	%	61	60	60	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	5	5	4
Sodium	ppm	2	4	2	4
Potassium	ppm	0	<1	0	<1



WEAR METALS

Iron	ppm	5	8	6	8
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	9	6	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	45	39	50	55
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1740	1818	1779	1673
Magnesium	ppm	529	487	539	512
Zinc	ppm	1118	1054	1146	1077
Phosphorus	ppm	954	1007	987	930
Barium	ppm	0	0	0	0
Boron	ppm	62	40	56	69

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.

Depot: VOLVO0090
Unique No: 9775037
Signed: Wes Davis
Report Date: 14 Dec 2021



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VOLVO GRAPHS

