



CONSTRUCTION EQUIPMENT

566730 IAA VOLVO L90H 626354 - DIESEL ENGINE



Sample No: VCP411589
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 566730 IAA



SAMPLE INFORMATION

Sample Number	VCP411589	VCP392679	VCP386205	VCP390742
Sample Date	20 Jun 2023	01 Mar 2023	09 Dec 2022	23 Sep 2022
Machine Hours	2579	1783	1204	669
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.8	12.8	12.6
Base Number (BN)	mg KOH/g	10.5	10.2	10.2	9.9
Oxidation (PA)	%	80	78	78	78



CONTAMINATION

Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	63	53	53	63
Sulfation (PA)	%	60	60	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	3	6	13
Sodium	ppm	2	<1	3	2
Potassium	ppm	2	1	0	0



WEAR METALS

Iron	ppm	9	7	9	25
Copper	ppm	<1	<1	1	5
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	3	4	22
Chromium	ppm	<1	<1	1	2
Molybdenum	ppm	41	48	42	33
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1631	1702	1646	1509
Magnesium	ppm	468	481	513	490
Zinc	ppm	1021	1115	1097	1055
Phosphorus	ppm	824	930	898	901
Barium	ppm	0	2	0	0
Boron	ppm	26	48	44	39

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: VOLVO0093
Unique No: 10550573
Signed: Wes Davis
Report Date: 11 Jul 2023



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GRAPHS

