



CONSTRUCTION EQUIPMENT

IAA VOLVO L90H 626354 - DIESEL ENGINE



Sample No: VCP432158
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: IAA



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SAMPLE INFORMATION

Sample Number	VCP432158	VCP411589	VCP392679	VCP386205
Sample Date	06 Nov 2023	20 Jun 2023	01 Mar 2023	09 Dec 2022
Machine Hours	3144	2579	1783	1204
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 100°C	cSt	12.3	12.8	12.8	12.8
Base Number (BN)	mg KOH/g	10.0	10.5	10.2	10.2
Oxidation (PA)	%	78	80	78	78

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	56	63	53	53
Sulfation (PA)	%	58	60	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	1.2	<1.0	<1.0	<1.0
Silicon	ppm	5	5	3	6
Sodium	ppm	<1	2	<1	3
Potassium	ppm	1	2	1	0

WEAR METALS

Iron	ppm	10	9	7	9
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	<1	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	4	3	4
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	43	41	48	42
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1577	1631	1702	1646
Magnesium	ppm	465	468	481	513
Zinc	ppm	1027	1021	1115	1097
Phosphorus	ppm	842	824	930	898
Barium	ppm	2	0	2	0
Boron	ppm	35	26	48	44

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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: 10776026
Signed: Wes Davis
Report Date: 12 Dec 2023



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VOLVO GRAPHS

