



CONSTRUCTION EQUIPMENT

SW-20298-2 IAA VOLVO L90H 623356 - DIESEL ENGINE



Sample No: VCP419282
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW-20298-2 IAA



SAMPLE INFORMATION

Sample Number	VCP419282	VCP402702	VCP387860	VCP346333
Sample Date	21 Jun 2023	24 Feb 2023	18 Oct 2022	22 Jul 2022
Machine Hours	12955	12305	11625	11125
Oil Hours	500	600	500	600
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	14.0	13.4	13.5
Base Number (BN)	mg KOH/g	9.2	9.5	10.3	11.1
Oxidation (PA)	%	68	70	75	88



CONTAMINATION

Soot %	%	0.6	0.5	0.3	0.3
Nitration (PA)	%	73	73	68	67
Sulfation (PA)	%	57	56	61	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	2	4	5
Sodium	ppm	3	0	<1	1
Potassium	ppm	2	<1	0	<1



WEAR METALS

Iron	ppm	12	12	8	8
Copper	ppm	1	0	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	0	0	<1
Aluminum	ppm	0	1	0	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	68	56	54	47
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1224	1252	1214	1621
Magnesium	ppm	976	819	898	564
Zinc	ppm	1275	1167	1249	1172
Phosphorus	ppm	1038	958	966	968
Barium	ppm	<1	<1	0	2
Boron	ppm	11	6	0	34

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: VOLVO8770
Unique No: 10535840
Signed: Don Baldrige
Report Date: 30 Jun 2023



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VOLVO GRAPHS

