



CONSTRUCTION EQUIPMENT

SW-23822-2 AMCOR VOLVO L90H 626358 - DIESEL ENGINE



Sample No: VCP412484
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SW-23822-2 AMCOR



SAMPLE INFORMATION

Sample Number	VCP412484	VCP419278	VCP404694	VCP395523
Sample Date	13 Sep 2023	19 Jun 2023	18 Apr 2023	17 Jan 2023
Machine Hours	3290	2675	2170	1307
Oil Hours	600	505	800	690
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.6	13.8	13.7
Base Number (BN)	mg KOH/g	8.7	9.7	8.0	9.4
Oxidation (PA)	%	68	67	68	65



CONTAMINATION

Soot %	%	0.6	0.6	0.6	0.4
Nitration (PA)	%	69	72	76	67
Sulfation (PA)	%	57	58	57	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	8	8
Sodium	ppm	2	1	3	3
Potassium	ppm	2	<1	0	<1



WEAR METALS

Iron	ppm	16	14	25	26
Copper	ppm	<1	1	4	2
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	<1	<1	2
Aluminum	ppm	<1	3	3	4
Chromium	ppm	2	1	2	2
Molybdenum	ppm	65	66	69	61
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1211	1147	1216	1330
Magnesium	ppm	1077	996	1003	906
Zinc	ppm	1356	1330	1285	1312
Phosphorus	ppm	1085	1061	1056	1032
Barium	ppm	0	0	0	2
Boron	ppm	0	8	10	13

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: 10658576
Signed: Don Baldrige
Report Date: 22 Sep 2023



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GRAPHS

