



CONSTRUCTION EQUIPMENT

SW1028426 IAA 6 VOLVO L90H 625150 - DIESEL ENGINE



Sample No: VCP437524
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1028426 IAA 6



SAMPLE INFORMATION

Sample Number	VCP437524	VCP413312	VCP369014	VCP369690
Sample Date	04 Jan 2024	25 Aug 2023	02 May 2023	02 Nov 2022
Machine Hours	7830	7315	6748	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.5	14.1	13.7
Base Number (BN)	mg KOH/g	9.1	9.1	6.8	9
Oxidation (PA)	%	68	77	80	78

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.7	0.7	0.5
Nitration (PA)	%	66	83	84	90
Sulfation (PA)	%	56	60	59	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	6	4
Sodium	ppm	1	1	0	2
Potassium	ppm	<1	0	1	2



WEAR METALS

Iron	ppm	4	13	15	12
Copper	ppm	<1	2	1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	1	2
Chromium	ppm	0	<1	1	<1
Molybdenum	ppm	50	58	60	59
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1203	1281	1279	1104
Magnesium	ppm	820	868	976	891
Zinc	ppm	1262	1304	1357	1219
Phosphorus	ppm	946	1053	1051	982
Barium	ppm	0	0	0	0
Boron	ppm	10	<1	12	4

Depot: VOLVO6174
Unique No: 10823697
Signed: Wes Davis
Report Date: 12 Jan 2024



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GRAPHS

