



CONSTRUCTION EQUIPMENT

SPM634472 WM VOLVO L90H 624824 - DIESEL ENGINE



Sample No: VCP428766
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM634472 WM



SAMPLE INFORMATION

Sample Number	VCP428766	VCP398377	VCP413900	VCP395508
Sample Date	29 Nov 2023	18 Oct 2023	03 Oct 2023	28 Sep 2023
Machine Hours	10587	10540	10193	10002
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.8	14.5	14.9	14.8
Base Number (BN)	mg KOH/g	8.5	7.7	9.1	9.4
Oxidation (PA)	%	66	60	61	56

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	0.5	0.6	0.3
Nitration (PA)	%	62	60	61	50
Sulfation (PA)	%	56	53	55	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	16	16	19	12
Sodium	ppm	<1	1	2	2
Potassium	ppm	<1	2	<1	0



WEAR METALS

Iron	ppm	6	8	11	7
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	4	4	4	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	58	64	62	60
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1128	1142	1098	1131
Magnesium	ppm	952	1027	1028	1013
Zinc	ppm	1307	1301	1343	1328
Phosphorus	ppm	1007	1079	1072	1077
Barium	ppm	0	7	0	0
Boron	ppm	10	0	0	2

Depot: VOLVO8885
Unique No: 10792851
Signed: Wes Davis
Report Date: 19 Dec 2023

VOLVO **GRAPHS**

