



CONSTRUCTION EQUIPMENT

SPM593757 VOLVO L90H 624824 - DIESEL ENGINE



Sample No: VCP399657
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM593757



SAMPLE INFORMATION

Sample Number	VCP399657	VCP399977	VCP404247	VCP422517
Sample Date	08 Aug 2023	07 Jun 2023	18 May 2023	08 May 2023
Machine Hours	9584	9431	9211	9062
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	15.0	14.8	14.9	14.8
Base Number (BN)	mg KOH/g	9.4	8.5	9.2	8.4
Oxidation (PA)	%	55	69	59	75

CONTAMINATION

Soot %	%	0.2	0.3	0.2	0.8
Nitration (PA)	%	46	55	52	76
Sulfation (PA)	%	50	57	53	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	12	9	▲ 26
Sodium	ppm	1	2	<1	2
Potassium	ppm	<1	2	1	<1

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.

WEAR METALS

Iron	ppm	4	8	6	20
Copper	ppm	<1	0	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	4	3	▲ 7
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	59	59	62	62
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0

ADDITIVES

Calcium	ppm	1040	1056	1079	1146
Magnesium	ppm	999	957	934	1037
Zinc	ppm	1224	1318	1257	1344
Phosphorus	ppm	1014	1041	1031	1061
Barium	ppm	0	0	0	0
Boron	ppm	0	2	<1	2

Depot: VOLVO8885
Unique No: 10615928
Signed: Wes Davis
Report Date: 22 Aug 2023



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GRAPHS

