

## **CONSTRUCTION EQUIPMENT**

SPM579499 WASTE MGMT VOLVO L90H 624438 - DIESEL ENGINE

Sample No: VCP417658

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

**Job No:** SPM579499 WASTE MGMT

VOLVO					
SAMPLE II	NFORMATION				
Sample Number	-	VCP417658	VCP422233	VCP405131	VCP396592
Sample Date		10 Jul 2023	16 May 2023	03 Apr 2023	10 Feb 2023
Machine Hours		11301	10677	10330	9322
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL	NORMAL
OIL CONDI	TION				
Visc @ 100°C	cSt	<b>12.4</b>	<b>12.6</b>	<b>12.8</b>	<b>12.8</b>
Base Number (BN)		■ 9.7	□ 10.0	■9.5	□ 10.1
Oxidation (PA)	%	86	80	79	85
VOLVO					
CONTAMII	NATION				
Soot %	%	□ 0.4	□ 0.2	□ 0.3	□0.3
Nitration (PA)	%	68	58	68	67
Sulfation (PA)	%	62	61	59	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<b>■3.6</b>	<1.0	<1.0	<1.0
Silicon	ppm	<u>^</u> 25	<b>1</b> 0	<b>1</b> 3	<b>1</b> 2
Sodium	ppm	<b>■</b> 4	<b>0</b>	2	2
Potassium	ppm	<b>0</b>	<b>-</b> <1	<b>1</b>	<b>0</b>
WEAR ME	TALS				
_		_			
Iron	ppm	<b>6</b>	<b>4</b>	<b>6</b>	<b>6</b>
Copper	ppm	<b>■</b> <1	<b>-</b> <1	<b>-</b> <1	<b>-</b> <1
Lead	ppm	<b>0</b>	0	<b>-</b> <1	<b></b> <1
Tin	ppm	<b>0</b>	<b>-</b> <1	<b></b> <1	<b>=</b> <1
Aluminum	ppm	<b>2</b>	1	2	<b>6</b>
Chromium	ppm	<b>-</b> <1	<b></b>	< 1	<1
Molybdenum	ppm	<b>45</b>	<b>45</b>	<b>4</b> 5	<b>4</b> 3
Nickel	ppm	■0	<1	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b></b>	<b>-</b> <1	<b>1</b> <1	<b>-</b> <1
Vanadium	ppm	<1	0	0	0

**1629** 

**492** 

922

**0** 

■33

**1092** 

**1405** 

**564** 

**1059** 

■888

**0** 

**1719** 

**513** 

**1108** 

903

0

32



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## Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. Light fuel dilution occurring. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot:VOLVO0093Unique No:10563386Signed:Doug BogartReport Date:23 Jul 2023

**1852** 

**535** 

**961** 

**0** 

**25** 

**1150** 

**ADDITIVES** 

ppm

ppm ppm

ppm

ppm

ppm

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus



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