



# CONSTRUCTION EQUIPMENT

## VOLVO L180H 5290 - DIESEL ENGINE



**Sample No:** VCP312988  
**Oil Type:** MOBIL 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP312988</b>	VCP312682	VCP402901	VCP343273
Sample Date	<b>18 Oct 2023</b>	07 Sep 2023	27 Jul 2023	19 Jun 2023
Machine Hours	<b>6268</b>	5994	5712	5464
Oil Hours	<b>274</b>	282	248	258
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	12.3	12.5	12.7
Base Number (BN)	mg KOH/g	<b>7.7</b>	10.4	9.8	10.2
Oxidation (PA)	%	<b>64</b>	80	73	82

### 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

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>64</b>	49	52	48
Sulfation (PA)	%	<b>52</b>	60	57	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	3	5	4
Sodium	ppm	<b>4</b>	<1	2	2
Potassium	ppm	<b>2</b>	2	<1	1



### WEAR METALS

Iron	ppm	<b>2</b>	3	3	3
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	2	2	<1
Chromium	ppm	<b>&lt;1</b>	0	0	<1
Molybdenum	ppm	<b>109</b>	40	42	42
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1329</b>	1635	1815	1772
Magnesium	ppm	<b>649</b>	470	531	541
Zinc	ppm	<b>915</b>	896	955	986
Phosphorus	ppm	<b>763</b>	733	781	811
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>109</b>	58	59	68

**Depot:** SCHGRE  
**Unique No:** 10723706  
**Signed:** Don Baldrige  
**Report Date:** 02 Nov 2023



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## GRAPHS

