



# CONSTRUCTION EQUIPMENT

## 2858 VOLVO L180H 5290 - DIESEL ENGINE



**Sample No:** VCP312990  
**Oil Type:** MOBIL 15W40  
**Job No:** 2858



### SAMPLE INFORMATION

Sample Number	VCP312990	VCP312988	VCP312682	VCP402901
Sample Date	13 Nov 2023	18 Oct 2023	07 Sep 2023	27 Jul 2023
Machine Hours	6425	6268	5994	5712
Oil Hours	157	274	282	248
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	13.1	13.0	12.3	12.5
Base Number (BN)	mg KOH/g	7.1	7.7	10.4	9.8
Oxidation (PA)	%	59	64	80	73

### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	63	64	49	52
Sulfation (PA)	%	50	52	60	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	3	5
Sodium	ppm	1	4	<1	2
Potassium	ppm	<1	2	2	<1

### WEAR METALS

Iron	ppm	0	2	3	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	4	2	2
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	118	109	40	42
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	<1	<1	0	<1

### ADDITIVES

Calcium	ppm	1276	1329	1635	1815
Magnesium	ppm	687	649	470	531
Zinc	ppm	904	915	896	955
Phosphorus	ppm	712	763	733	781
Barium	ppm	0	<1	0	0
Boron	ppm	137	109	58	59

### 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.

**Depot:** SCHGRE  
**Unique No:** 10755194  
**Signed:** Jonathan Hester  
**Report Date:** 27 Nov 2023



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## GRAPHS

