



CONSTRUCTION EQUIPMENT

VOLVO L180H 5290 - DIESEL ENGINE



Sample No: VCP312682
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP312682	VCP402901	VCP343273	VCP362759
Sample Date	07 Sep 2023	27 Jul 2023	19 Jun 2023	08 May 2023
Machine Hours	5994	5712	5464	5206
Oil Hours	282	248	258	272
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.3	12.5	12.7	12.7
Base Number (BN)	mg KOH/g	10.4	9.8	10.2	10.3
Oxidation (PA)	%	80	73	82	80

CONTAMINATION

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

WEAR METALS

Iron	ppm	3	3	3	2
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	<1	0	2
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	<1	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	40	42	42	39
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1

ADDITIVES

Calcium	ppm	1635	1815	1772	1763
Magnesium	ppm	470	531	541	529
Zinc	ppm	896	955	986	963
Phosphorus	ppm	733	781	811	746
Barium	ppm	0	0	0	0
Boron	ppm	58	59	68	70

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: 10671660
Signed: Wes Davis
Report Date: 02 Oct 2023



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GRAPHS

