



CONSTRUCTION EQUIPMENT

VOLVO L180H 5290 - DIESEL ENGINE



Sample No: VCP343273
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP343273	VCP362759	VCP386307	VCP373660
Sample Date	19 Jun 2023	08 May 2023	13 Mar 2023	23 Jan 2023
Machine Hours	5464	5206	4934	4660
Oil Hours	258	272	274	313
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.7	12.8	12.7
Base Number (BN)	mg KOH/g	10.2	10.3	10.4	10.6
Oxidation (PA)	%	82	80	77	76



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	48	48	47	50
Sulfation (PA)	%	61	61	60	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	3
Sodium	ppm	2	2	2	1
Potassium	ppm	1	3	1	2



WEAR METALS

Iron	ppm	3	2	2	3
Copper	ppm	<1	<1	0	<1
Lead	ppm	0	2	0	0
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	<1	2	0	2
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	42	39	41	41
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1772	1763	1707	1683
Magnesium	ppm	541	529	540	481
Zinc	ppm	986	963	980	901
Phosphorus	ppm	811	746	780	741
Barium	ppm	0	0	0	0
Boron	ppm	68	70	65	66

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: 10545755
Signed: Wes Davis
Report Date: 05 Jul 2023



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GRAPHS

