



CONSTRUCTION EQUIPMENT

VOLVO L180H 1153 - DIESEL ENGINE



Sample No: VCP0007958
Oil Type: DIESEL ENGINE OIL SAE 30
Job No:



SAMPLE INFORMATION

Sample Number	VCP0007958	VCP0002554	VCP0002511	VCP350720
Sample Date	28 Nov 2023	15 Nov 2022	26 Jul 2022	04 Apr 2022
Machine Hours	8885	2590	2590	2590
Oil Hours	8885	2590	2590	500
Oil Changed	N/A	N/A	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.0	12.8	12.5
Base Number (BN)	mg KOH/g	9.1	10.0	10.0	10.3
Oxidation (PA)	%	82	91	83	85



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.3	0.2
Nitration (PA)	%	71	87	75	81
Sulfation (PA)	%	59	66	63	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	4	4
Sodium	ppm	3	2	3	2
Potassium	ppm	0	2	0	1



WEAR METALS

Iron	ppm	4	8	6	7
Copper	ppm	2	2	2	23
Lead	ppm	0	1	1	2
Tin	ppm	0	1	1	1
Aluminum	ppm	0	1	<1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	37	41	37	40
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1691	1680	1498	1660
Magnesium	ppm	502	490	460	584
Zinc	ppm	1062	1217	1206	1110
Phosphorus	ppm	934	978	977	987
Barium	ppm	0	0	0	0
Boron	ppm	28	14	19	24

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: VOLVO0092
Unique No: 10765932
Signed: Wes Davis
Report Date: 01 Dec 2023



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GRAPHS

