



CONSTRUCTION EQUIPMENT

VOLVO L180H 1156 - DIESEL ENGINE



Sample No: VCP0007961
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP0007961	VCP0002542	VCP0002559	VCP362459
Sample Date	28 Nov 2023	15 Nov 2022	26 Jul 2022	04 Apr 2022
Machine Hours	10299	4216	4216	2852
Oil Hours	8935	2852	1364	1000
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	12.7	13.1	13.0	13.2
Base Number (BN)	mg KOH/g	8.8	8.4	7.4	9.7
Oxidation (PA)	%	82	98	90	90



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.8	0.7	0.4
Nitration (PA)	%	71	103	91	75
Sulfation (PA)	%	60	72	69	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	9	5	4
Sodium	ppm	3	3	3	2
Potassium	ppm	0	5	3	1



WEAR METALS

Iron	ppm	4	17	13	8
Copper	ppm	2	5	10	19
Lead	ppm	0	4	3	1
Tin	ppm	0	2	2	1
Aluminum	ppm	0	5	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	36	43	41	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	1693	1744	1527	1675
Magnesium	ppm	506	504	426	586
Zinc	ppm	1067	1240	1201	1117
Phosphorus	ppm	934	962	918	1002
Barium	ppm	0	0	0	0
Boron	ppm	28	9	11	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: 10765931
Signed: Wes Davis
Report Date: 01 Dec 2023



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GRAPHS

