



CONSTRUCTION EQUIPMENT

VOLVO L180H 1108 - DIESEL ENGINE



Sample No: VCP0007969
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP0007969	VCP0002545	VCP0002506	VCP362457
Sample Date	28 Nov 2023	15 Nov 2022	26 Jul 2022	04 Apr 2022
Machine Hours	10650	6268	6268	5159
Oil Hours	9541	5159	1109	500
Oil Changed	N/A	N/A	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT COMPANY
 8750 PHILIPS HWY
 JACKSONVILLE, FL
 US 32256
 Contact: SHAWN NORTHCRAFT
 shawn.northcraft@altg.com
 T: (904)737-6000
 F: (904)737-1260



OIL CONDITION

Visc @ 100°C	cSt	12.6	13.1	12.7	13.1
Base Number (BN)	mg KOH/g	8.8	11.2	9.7	11.2
Oxidation (PA)	%	82	88	83	86



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.3	0.2
Nitration (PA)	%	71	78	75	73
Sulfation (PA)	%	59	65	63	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	4	2
Sodium	ppm	3	3	3	<1
Potassium	ppm	0	0	0	0



WEAR METALS

Iron	ppm	4	6	6	2
Copper	ppm	2	2	2	1
Lead	ppm	0	1	1	<1
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	<1	<1	1	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	40	42	37	26
Nickel	ppm	0	<1	<1	0
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	1687	1738	1484	1083
Magnesium	ppm	514	517	460	364
Zinc	ppm	1064	1265	1212	671
Phosphorus	ppm	940	1026	973	617
Barium	ppm	0	0	0	0
Boron	ppm	33	19	19	26

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: 10765929
Signed: Wes Davis
Report Date: 01 Dec 2023



CONSTRUCTION EQUIPMENT



GRAPHS

