



CONSTRUCTION EQUIPMENT

VOLVO L180H 4929 - DIESEL ENGINE



Sample No: VCP406614
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP406614	VCP406620	VCP368334	VCP382209
Sample Date	07 Mar 2024	11 Jan 2024	22 Nov 2023	26 Sep 2023
Machine Hours	12019	11451	11038	10607
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ARNOLD MACHINERY COMPANY
 464 WASHINGTON STREET S
 TWIN FALLS, ID
 US 83301
 Contact: JANA E HYMAS
 jhymas@arnoldmachinery.com
 T: (208)733-1715
 F: (775)356-7152



OIL CONDITION

Visc @ 100°C	cSt	11.7	12.0	12.3	12.4
Base Number (BN)	mg KOH/g	7.9	8.7	9.3	9.1
Oxidation (PA)	%	58	57	58	60



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.1	0.1	0.2
Nitration (PA)	%	64	58	55	59
Sulfation (PA)	%	51	51	52	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	3	3	2
Sodium	ppm	0	2	6	3
Potassium	ppm	1	<1	4	2



WEAR METALS

Iron	ppm	5	3	10	<1
Copper	ppm	1	<1	11	4
Lead	ppm	1	0	0	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	<1	5	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	78	65	67	65
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1141	1133	1192	1169
Magnesium	ppm	888	1024	834	1029
Zinc	ppm	1188	1319	1165	1332
Phosphorus	ppm	1017	1134	975	1070
Barium	ppm	0	0	0	0
Boron	ppm	17	9	24	4

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: VOLVO1835
Unique No: 10940255
Signed: Wes Davis
Report Date: 22 Mar 2024



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GRAPHS

