



CONSTRUCTION EQUIPMENT

W07013874-1 VOLVO A40G 340980 - DIESEL ENGINE



Sample No: VCP418123
Oil Type: CHEVRON 15W40
Job No: W07013874-1



SAMPLE INFORMATION

Sample Number	VCP418123	VCP386329	VCP379380	VCP351286
Sample Date	28 Nov 2023	14 Nov 2022	13 Sep 2022	18 Feb 2022
Machine Hours	6506	5934	5732	9894
Oil Hours	500	0	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
 Contact: KYLE RATLIFFE
 KRATLIFFE@MCCLUNG-LOGAN.COM
 T:
 F: (804)266-1611



OIL CONDITION

Visc @ 100°C	cSt	12.8	12.5	12.6	▲ 12.3
Base Number (BN)	mg KOH/g	9.2	10.3	9.2	10.7
Oxidation (PA)	%	83	71	82	86

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.



CONTAMINATION

Water	%	NEG	0.22	NEG	NEG
Soot %	%	0.4	0.2	0.3	0.1
Nitration (PA)	%	78	68	78	66
Sulfation (PA)	%	63	63	64	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	12	6	6	5
Sodium	ppm	0	1	<1	<1
Potassium	ppm	1	3	1	0



WEAR METALS

Iron	ppm	19	6	11	6
Copper	ppm	6	1	2	5
Lead	ppm	1	<1	<1	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	4	3	4	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	60	112	50	68
Nickel	ppm	1	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	3	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1657	1445	1452	1643
Magnesium	ppm	536	573	466	524
Zinc	ppm	1075	932	1074	987
Phosphorus	ppm	889	767	909	848
Barium	ppm	2	0	2	0
Boron	ppm	63	328	119	90

Depot: VOLVO8882
Unique No: 10767952
Signed: Wes Davis
Report Date: 05 Dec 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

