



CONSTRUCTION EQUIPMENT

W07013547 STANLEY VOLVO A45G 342386 - DIESEL ENGINE



Sample No: VCP414566
Oil Type: MOBIL 15W40
Job No: W07013547 STANLEY



SAMPLE INFORMATION

Sample Number	VCP414566	VCP421124	VCP381121	VCP372987
Sample Date	11 Oct 2023	17 Apr 2023	22 Nov 2022	20 Jul 2022
Machine Hours	7383	6875	6467	5855
Oil Hours	0	500	600	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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



OIL CONDITION

Visc @ 100°C	cSt	13.3	13.1	13.1	13.1
Base Number (BN)	mg KOH/g	5.7	6.7	7.4	6.5
Oxidation (PA)	%	60	74	88	96



CONTAMINATION

Soot %	%	0.3	0.3	0.5	0.7
Nitration (PA)	%	83	87	98	105
Sulfation (PA)	%	53	57	66	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	5	5
Sodium	ppm	3	2	5	1
Potassium	ppm	<1	1	0	<1



WEAR METALS

Iron	ppm	11	13	12	16
Copper	ppm	2	3	2	3
Lead	ppm	2	<1	2	2
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	5	<1	4	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	83	61	53	50
Nickel	ppm	1	<1	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1935	1226	1257	1294
Magnesium	ppm	133	800	758	728
Zinc	ppm	1084	950	851	929
Phosphorus	ppm	866	728	718	703
Barium	ppm	3	0	0	0
Boron	ppm	35	32	15	22

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: VOLVO8882
Unique No: 10697597
Signed: Wes Davis
Report Date: 17 Oct 2023



CONSTRUCTION EQUIPMENT



GRAPHS

