



CONSTRUCTION EQUIPMENT

W07013039 STANLEY VOLVO A45G 342404 - DIESEL ENGINE



Sample No: VCP418132
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: W07013039 STANLEY



SAMPLE INFORMATION

Sample Number	VCP418132	VCP423665	VCP368912	VCP377643
Sample Date	17 Jul 2023	20 Apr 2023	03 Feb 2023	27 Jun 2022
Machine Hours	7395	6927	6474	5854
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION

McClung-Logan Virginia LLC- RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.7	12.3	11.8
Base Number (BN)	mg KOH/g	6.9	4.8	5.5	9.0
Oxidation (PA)	%	78	78	57	72



CONTAMINATION

Soot %	%	0.3	0.3	0.3	0.2
Nitration (PA)	%	93	91	83	58
Sulfation (PA)	%	59	57	60	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	3.4
Silicon	ppm	5	4	4	3
Sodium	ppm	3	3	3	1
Potassium	ppm	<1	0	1	<1



WEAR METALS

Iron	ppm	12	11	15	6
Copper	ppm	2	2	4	3
Lead	ppm	2	0	1	1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	<1	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	49	45	26	53
Nickel	ppm	<1	<1	1	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1222	1198	1987	1525
Magnesium	ppm	759	665	174	539
Zinc	ppm	872	800	966	1082
Phosphorus	ppm	686	645	796	869
Barium	ppm	0	0	0	0
Boron	ppm	26	21	12	72

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: 10572997
Signed: Sean Felton
Report Date: 27 Jul 2023



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GRAPHS

