



CONSTRUCTION EQUIPMENT

W07013626-1 STANLEY VOLVO A45G 3425 19 - DIESEL ENGINE



Sample No: VCP409374
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: W07013626-1 STANLEY



SAMPLE INFORMATION

Sample Number	VCP409374	VCP420984	VCP372910	VCP378314
Sample Date	20 Oct 2023	13 Apr 2023	11 Jul 2022	11 Jul 2022
Machine Hours	5995	5481	4282	4282
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	ATTENTION	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.1	10.6	12.3
Base Number (BN)	mg KOH/g	6.4	4.5	8.6	8.4
Oxidation (PA)	%	58	54	37	79



CONTAMINATION

Soot %	%	0.4	0.4	0.4	0.5
Nitration (PA)	%	77	75	53	88
Sulfation (PA)	%	54	53	45	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.8	0.5
Silicon	ppm	6	5	23	4
Sodium	ppm	4	<1	0	<1
Potassium	ppm	0	0	2	1



WEAR METALS

Iron	ppm	9	15	37	14
Copper	ppm	2	4	19	11
Lead	ppm	0	0	3	1
Tin	ppm	<1	0	1	<1
Aluminum	ppm	5	6	8	4
Chromium	ppm	<1	1	1	1
Molybdenum	ppm	80	67	13	54
Nickel	ppm	2	1	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	2	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2093	2227	1332	1235
Magnesium	ppm	93	107	786	615
Zinc	ppm	1160	1184	1215	859
Phosphorus	ppm	851	950	1039	693
Barium	ppm	0	0	0	0
Boron	ppm	54	19	12	25

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: 10711604
Signed: Wes Davis
Report Date: 26 Oct 2023



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GRAPHS

