



CONSTRUCTION EQUIPMENT

W07013587 VOLVO A35G 342035 - DIESEL ENGINE



Sample No: VCP409361
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: W07013587



SAMPLE INFORMATION

Sample Number	VCP409361	VCP418140	VCP423620	VCP401326
Sample Date	11 Oct 2023	03 Aug 2023	25 Apr 2023	06 Feb 2023
Machine Hours	9143	8716	8115	7619
Oil Hours	0	500	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.3	12.1	12.2
Base Number (BN)	mg KOH/g	7.5	7.0	5.0	7.3
Oxidation (PA)	%	65	65	40	67



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	69	74	57	78
Sulfation (PA)	%	54	52	43	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.4
Silicon	ppm	5	4	3	6
Sodium	ppm	9	5	10	22
Potassium	ppm	<1	<1	<1	2

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.



WEAR METALS

Iron	ppm	5	5	5	8
Copper	ppm	<1	<1	2	2
Lead	ppm	<1	<1	0	1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	2	1	2	3
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	48	46	22	64
Nickel	ppm	<1	0	<1	2
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1157	1368	2124	1229
Magnesium	ppm	662	717	94	760
Zinc	ppm	793	921	1089	931
Phosphorus	ppm	648	719	912	662
Barium	ppm	3	0	0	0
Boron	ppm	29	22	10	29

Depot: VOLVO8882
Unique No: 10697600
Signed: Don Baldrige
Report Date: 18 Oct 2023



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GRAPHS

