



CONSTRUCTION EQUIPMENT

C&C593950 ALJON ADV600 30124 - DIESEL ENGINE



Sample No: VCP412768
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: C&C593950



SAMPLE INFORMATION

Sample Number	VCP412768	VCP427124	VCP398664	VCP398675
Sample Date	10 Aug 2023	14 Jun 2023	19 Apr 2023	15 Feb 2023
Machine Hours	3205	2952	2673	2232
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.4	12.7	12.9
Base Number (BN)	mg KOH/g	8.6	8.5	7.5	10.2
Oxidation (PA)	%	81	79	72	65



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	65	61	62	47
Sulfation (PA)	%	60	59	53	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.0	<1.0	<1.0
Silicon	ppm	12	11	9	6
Sodium	ppm	<1	1	2	2
Potassium	ppm	4	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	6	7	5	3
Copper	ppm	3	6	7	5
Lead	ppm	1	0	0	0
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	2	2	1	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	50	51	46	51
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1746	1573	1089	1408
Magnesium	ppm	541	721	613	671
Zinc	ppm	1190	1255	892	1163
Phosphorus	ppm	928	994	808	965
Barium	ppm	0	0	0	0
Boron	ppm	50	28	17	37

Depot: VOLVO0096
Unique No: 10604669
Signed: Wes Davis
Report Date: 15 Aug 2023



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GRAPHS

