



CONSTRUCTION EQUIPMENT

593964 C&C ALJON 600 30126 - DIESEL ENGINE



Sample No: VCP412273
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 593964 C&C



SAMPLE INFORMATION

Sample Number	VCP412273	VCP412955	VCP409916	VCP399698
Sample Date	09 Aug 2023	14 Jun 2023	16 May 2023	01 Mar 2023
Machine Hours	3146	2756	2553	2104
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	12.6	12.6	12.5	12.6
Base Number (BN)	mg KOH/g	8.8	9.9	9.0	10.2
Oxidation (PA)	%	84	82	74	66



CONTAMINATION

Soot %	%	0.2	0.1	0.1	0.1
Nitration (PA)	%	68	53	63	48
Sulfation (PA)	%	60	60	59	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	15	8	11	4
Sodium	ppm	<1	1	3	0
Potassium	ppm	1	0	2	<1



WEAR METALS

Iron	ppm	6	4	6	1
Copper	ppm	<1	0	<1	0
Lead	ppm	1	0	1	0
Tin	ppm	1	1	2	0
Aluminum	ppm	<1	2	2	0
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	47	45	55	47
Nickel	ppm	1	<1	2	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1783	1791	1632	1358
Magnesium	ppm	600	573	667	604
Zinc	ppm	1217	1217	1223	1078
Phosphorus	ppm	944	994	983	911
Barium	ppm	0	0	0	<1
Boron	ppm	21	47	33	31

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: VOLVO0096
Unique No: 10604687
Signed: Wes Davis
Report Date: 15 Aug 2023



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GRAPHS

