



CONSTRUCTION EQUIPMENT

R23206 IAA AVENEL VOLVO L90G 3314 - DIESEL ENGINE



Sample No: VCP390257
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: R23206 IAA AVENEL



SAMPLE INFORMATION

Sample Number	VCP390257	VCP390253	VCP384754	VCP347298
Sample Date	26 Sep 2023	30 May 2023	02 Dec 2022	04 Mar 2022
Machine Hours	19262	18852	18042	17476
Oil Hours	500	800	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.3	13.6	13.6
Base Number (BN)	mg KOH/g	10.4	10.3	12.0	10.7
Oxidation (PA)	%	82	83	87	78

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.



CONTAMINATION

Soot %	%	0.2	0.3	0.2	0.1
Nitration (PA)	%	53	66	63	45
Sulfation (PA)	%	60	62	66	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	9	13	8
Sodium	ppm	6	19	50	2
Potassium	ppm	1	<1	<1	<1



WEAR METALS

Iron	ppm	10	23	37	7
Copper	ppm	<1	2	4	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	<1	2	<1
Aluminum	ppm	7	15	13	2
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	42	39	41	39
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1616	1766	1729	1645
Magnesium	ppm	473	521	552	542
Zinc	ppm	1118	1145	1148	1123
Phosphorus	ppm	922	911	928	961
Barium	ppm	0	0	0	0
Boron	ppm	44	44	57	62

Depot: HOFPISNJ
Unique No: 10671631
Signed: Wes Davis
Report Date: 02 Oct 2023



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GRAPHS

