



CONSTRUCTION EQUIPMENT

R24957 IAA-AVENEL VOLVO L90G 3314 - DIESEL ENGINE



Sample No: VCP409965
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: R24957 IAA-AVENEL



SAMPLE INFORMATION

Sample Number	VCP409965	VCP436554	VCP390257	VCP390253
Sample Date	01 May 2024	26 Feb 2024	26 Sep 2023	30 May 2023
Machine Hours	20066	19777	19262	18852
Oil Hours	0	0	500	800
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

HOFFMAN EQUIPMENT INC
 300 S RANDOLPHVILLE RD
 PISCATAWAY, NJ
 US 08854
 Contact: IOANA BODOCHI
 ioana.bodochi@hoffmanequip.com
 T:
 F: (732)968-8371



OIL CONDITION

Visc @ 100°C	cSt	12.9	12.9	13.1	13.3
Base Number (BN)	mg KOH/g	10.5	10.5	10.4	10.3
Oxidation (PA)	%	80	82	82	83

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.2	0.3
Nitration (PA)	%	51	60	53	66
Sulfation (PA)	%	61	61	60	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	11	6	9
Sodium	ppm	11	27	6	19
Potassium	ppm	<1	2	1	<1



WEAR METALS

Iron	ppm	12	32	10	23
Copper	ppm	2	2	<1	2
Lead	ppm	0	<1	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	10	18	7	15
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	44	42	39
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1774	1705	1616	1766
Magnesium	ppm	525	499	473	521
Zinc	ppm	1156	1126	1118	1145
Phosphorus	ppm	1001	1001	922	911
Barium	ppm	0	0	0	0
Boron	ppm	59	50	44	44

Depot: HOFPISNJ
Unique No: 11018410
Signed: Wes Davis
Report Date: 09 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS

