



CONSTRUCTION EQUIPMENT

R24147 IAA PT MURRAY VOLVO L90H 624752 - DIESEL ENGINE



Sample No: VCP436560
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: R24147 IAA PT MURRAY



SAMPLE INFORMATION

Sample Number	VCP436560	VCP390292	VCP399091	VCP384765
Sample Date	02 Feb 2024	09 Jun 2023	24 Feb 2023	09 Nov 2022
Machine Hours	4056	3582	3295	2689
Oil Hours	0	0	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	12.8	12.9	13.4
Base Number (BN)	mg KOH/g	10.3	10.6	10.8	12.0
Oxidation (PA)	%	82	84	86	88

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 %	%	0.3	0.2	0.3	0.3
Nitration (PA)	%	62	54	64	67
Sulfation (PA)	%	60	62	62	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	6	3	8
Sodium	ppm	0	3	0	<1
Potassium	ppm	<1	0	0	2



WEAR METALS

Iron	ppm	16	6	11	20
Copper	ppm	2	<1	0	2
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	8	<1	4	14
Chromium	ppm	1	<1	0	1
Molybdenum	ppm	49	40	39	41
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	0	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1724	1758	1649	1790
Magnesium	ppm	581	517	468	465
Zinc	ppm	1234	1123	1078	1133
Phosphorus	ppm	987	928	901	944
Barium	ppm	0	0	<1	2
Boron	ppm	53	55	36	51

Depot: HOFPISNJ
Unique No: 10872639
Signed: Wes Davis
Report Date: 12 Feb 2024



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GRAPHS

