



CONSTRUCTION EQUIPMENT

25462 VOLVO A40G 352835 - DIESEL ENGINE



Sample No: VCP421554
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25462



SAMPLE INFORMATION

Sample Number	VCP421554	VCP434616	VCP426845	VCP404394
Sample Date	26 Apr 2024	20 Oct 2023	27 Mar 2023	14 Jan 2023
Machine Hours	5087	4008	2974	2623
Oil Hours	0	1000	1000	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.2	12.6	12.2
Base Number (BN)	mg KOH/g	8.3	8.3	9.8	6.2
Oxidation (PA)	%	83	80	80	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 %	%	0.2	0.2	0.2	0.3
Nitration (PA)	%	75	71	60	94
Sulfation (PA)	%	61	62	63	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.9
Silicon	ppm	6	7	6	12
Sodium	ppm	2	4	2	3
Potassium	ppm	4	3	<1	0



WEAR METALS

Iron	ppm	12	9	7	19
Copper	ppm	9	25	38	126
Lead	ppm	<1	0	0	2
Tin	ppm	1	<1	<1	3
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	42	38	42	45
Nickel	ppm	<1	0	<1	1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1620	1702	1826	1549
Magnesium	ppm	487	522	553	439
Zinc	ppm	1078	1107	1202	969
Phosphorus	ppm	936	811	986	731
Barium	ppm	0	0	0	0
Boron	ppm	33	27	46	10

Depot: VOLVO3387
Unique No: 11015855
Signed: Wes Davis
Report Date: 07 May 2024



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GRAPHS

