



CONSTRUCTION EQUIPMENT

19617 BALFOUR BEATTY VOLVO A40G 352205 - DIESEL ENGINE



Sample No: VCP435320
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 19617 BALFOUR BEATTY



SAMPLE INFORMATION

Sample Number	VCP435320	VCP424383	VCP339934	VCP313909
Sample Date	13 Sep 2023	03 May 2023	03 Oct 2022	16 Sep 2021
Machine Hours	4975	4383	3541	2086
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.9	12.6	12.9
Base Number (BN)	mg KOH/g	8.7	7.2	9.9	---
Oxidation (PA)	%	75	55	67	69

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 %	%	0.1	0.1	0.2	0.2
Nitration (PA)	%	63	55	65	82
Sulfation (PA)	%	58	46	58	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	3	5	6
Sodium	ppm	5	1	<1	2
Potassium	ppm	1	<1	<1	<1



WEAR METALS

Iron	ppm	7	8	10	12
Copper	ppm	2	1	7	32
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	3	3	3	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	46	59	63	57
Nickel	ppm	3	3	3	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1679	1252	1344	1234
Magnesium	ppm	616	953	714	857
Zinc	ppm	1192	1289	1157	1211
Phosphorus	ppm	1005	1028	974	959
Barium	ppm	0	0	0	0
Boron	ppm	30	8	44	4

Depot: VOLVO8769
Unique No: 10662252
Signed: Don Baldrige
Report Date: 27 Sep 2023



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GRAPHS

