



CONSTRUCTION EQUIPMENT

23873 VOLVO A40G 352816 - DIESEL ENGINE



Sample No: VCP426924
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 23873



SAMPLE INFORMATION

Sample Number	VCP426924	VCP426853	VCP388845	VCP375994
Sample Date	17 Aug 2023	29 Mar 2023	21 Nov 2022	21 Jun 2022
Machine Hours	4963	3963	3066	2073
Oil Hours	1000	1000	1000	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.6	12.7	12.2
Base Number (BN)	mg KOH/g	8.3	8.9	9.6	10.5
Oxidation (PA)	%	80	84	93	78

CONTAMINATION

Soot %	%	0.2	0.2	0.2	0.1
Nitration (PA)	%	75	75	84	68
Sulfation (PA)	%	60	62	69	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	6	5
Sodium	ppm	3	2	2	3
Potassium	ppm	0	<1	0	0

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.

WEAR METALS

Iron	ppm	11	8	11	8
Copper	ppm	11	10	▲ 26	▲ 51
Lead	ppm	1	0	1	<1
Tin	ppm	1	<1	1	1
Aluminum	ppm	2	2	2	1
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	42	42	44	45
Nickel	ppm	2	<1	1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1833	1839	1775	1647
Magnesium	ppm	579	555	509	468
Zinc	ppm	1177	1211	1127	1078
Phosphorus	ppm	1013	1002	904	875
Barium	ppm	0	0	0	0
Boron	ppm	31	37	23	42

Depot: VOLVO3387
Unique No: 10617090
Signed: Wes Davis
Report Date: 24 Aug 2023



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GRAPHS

