



CONSTRUCTION EQUIPMENT

633732 PRIMORIS VOLVO A40G 352781 - DIESEL ENGINE



Sample No: VCP432439
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 633732 PRIMORIS



SAMPLE INFORMATION

Sample Number	VCP432439	VCP393910	VCP398771	VCP393591
Sample Date	15 Nov 2023	26 Apr 2023	17 Jan 2023	20 Dec 2022
Machine Hours	4220	3725	3066	2564
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.5	13.0	12.6
Base Number (BN)	mg KOH/g	9.6	9.1	9.4	9.7
Oxidation (PA)	%	80	78	80	80

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)	%	64	72	73	69
Sulfation (PA)	%	60	59	61	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	6	5
Sodium	ppm	2	2	2	1
Potassium	ppm	<1	<1	0	1



WEAR METALS

Iron	ppm	2	4	8	6
Copper	ppm	<1	3	19	1
Lead	ppm	0	<1	1	<1
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	1	0	2	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	39	46	44	46
Nickel	ppm	<1	2	3	1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1532	1686	1650	1568
Magnesium	ppm	486	541	527	546
Zinc	ppm	1077	1128	1120	1125
Phosphorus	ppm	894	906	904	936
Barium	ppm	0	0	0	0
Boron	ppm	31	24	31	30

Depot: VOLVO0093
Unique No: 10764753
Signed: Wes Davis
Report Date: 30 Nov 2023



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GRAPHS

