



CONSTRUCTION EQUIPMENT

729229 PRIMORIS ENER VOLVO A40G 352782 - DIESEL ENGINE



Sample No: VCP449863
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 729229 PRIMORIS ENER



SAMPLE INFORMATION

Sample Number	VCP449863	VCP432334	VCP397261	VCP364355
Sample Date	18 Jun 2024	29 Jan 2024	17 Jan 2023	15 Aug 2022
Machine Hours	4543	4045	2952	2306
Oil Hours	500	0	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.3	12.5	13.0
Base Number (BN)	mg KOH/g	8.7	9.4	8.8	8.0
Oxidation (PA)	%	82	80	82	93

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	0.3	0.4
Nitration (PA)	%	75	66	78	97
Sulfation (PA)	%	60	61	63	71
Glycol	%	NEG	NEG	NEG	0.0
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	6	8
Sodium	ppm	3	2	2	2
Potassium	ppm	0	1	0	0



WEAR METALS

Iron	ppm	8	12	11	17
Copper	ppm	6	16	26	52
Lead	ppm	0	<1	1	1
Tin	ppm	0	1	<1	<1
Aluminum	ppm	3	4	2	2
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	41	40	44	39
Nickel	ppm	6	12	6	4
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	1	<1	1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1701	1443	1621	1635
Magnesium	ppm	497	434	510	445
Zinc	ppm	1065	982	1062	970
Phosphorus	ppm	939	853	853	764
Barium	ppm	0	1	0	0
Boron	ppm	23	28	20	11

Depot: VOLVO0093
Unique No: 11126332
Signed: Wes Davis
Report Date: 17 Jul 2024



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GRAPHS

