



CONSTRUCTION EQUIPMENT

504396 BARTON MINES VOLVO EC480E 314439 - DIESEL ENGINE



Sample No: VCP431672
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 504396 BARTON MINES



SAMPLE INFORMATION

Sample Number	VCP431672	VCP389678	VCP322238	VCP315941
Sample Date	25 Mar 2024	25 Oct 2022	19 May 2022	27 Jan 2022
Machine Hours	4118	2558	2075	1554
Oil Hours	0	500	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	ATTENTION

ALTA EQUIPMENT

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OIL CONDITION

Visc @ 100°C	cSt	12.2	11.6	12.5	11.4
Base Number (BN)	mg KOH/g	8.8	10.5	9.1	8.1
Oxidation (PA)	%	90	68	91	87

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	76	58	80	78
Sulfation (PA)	%	62	64	65	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.6	<1.0	0.2
Silicon	ppm	3	4	4	6
Sodium	ppm	4	0	2	<1
Potassium	ppm	1	0	0	0



WEAR METALS

Iron	ppm	3	4	6	6
Copper	ppm	1	<1	1	4
Lead	ppm	0	<1	1	<1
Tin	ppm	0	<1	1	1
Aluminum	ppm	<1	<1	1	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	38	49	42	41
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1736	1610	1764	1562
Magnesium	ppm	482	493	540	517
Zinc	ppm	1122	1037	1077	998
Phosphorus	ppm	800	865	938	891
Barium	ppm	0	0	0	0
Boron	ppm	39	38	33	31

Depot: VOLVO0142
Unique No: 10949733
Signed: Jonathan Hester
Report Date: 27 Mar 2024



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GRAPHS

