



CONSTRUCTION EQUIPMENT

701286 PRIMORIS VOLVO A40G 352491 - DIESEL ENGINE



Sample No: VCP445520
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 701286 PRIMORIS



SAMPLE INFORMATION

Sample Number	VCP445520	VCP414641	VCP393582	VCP392962
Sample Date	18 Apr 2024	22 Sep 2023	25 Apr 2023	06 Dec 2022
Machine Hours	5157	4299	3617	3132
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	12.9	12.5	12.4	12.6
Base Number (BN)	mg KOH/g	7.7	9.2	9.9	10.9
Oxidation (PA)	%	83	82	81	86

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 %	%	0.4	0.4	0.3	0.3
Nitration (PA)	%	85	71	65	71
Sulfation (PA)	%	60	61	61	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	6	4
Sodium	ppm	5	3	<1	0
Potassium	ppm	2	<1	1	1



WEAR METALS

Iron	ppm	10	7	6	8
Copper	ppm	2	1	4	10
Lead	ppm	2	2	<1	<1
Tin	ppm	1	2	<1	<1
Aluminum	ppm	6	4	2	3
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	39	42	57	47
Nickel	ppm	2	2	2	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1719	1660	1715	1709
Magnesium	ppm	512	518	505	485
Zinc	ppm	1172	1199	1149	1076
Phosphorus	ppm	926	957	958	895
Barium	ppm	0	0	0	0
Boron	ppm	19	30	42	33

Depot: VOLVO0093
Unique No: 11046914
Signed: Wes Davis
Report Date: 28 May 2024



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GRAPHS

