



CONSTRUCTION EQUIPMENT

X47784 VOLVO A25G 752361 - DIESEL ENGINE



Sample No: VCP452478
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X47784



SAMPLE INFORMATION

Sample Number	VCP452478	VCP414515	VC379697	VCE00989
Sample Date	10 Apr 2024	11 Oct 2023	30 Aug 2022	08 Jun 2022
Machine Hours	3520	3370	2003	1646
Oil Hours	0	0	2003	500
Oil Changed	Not Chngd	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.3	12.7	12.8	12.9
Base Number (BN)	mg KOH/g	10.5	8.1	11.2	9.9
Oxidation (PA)	%	80	88	87	88

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	0.7	0.4	0.6
Nitration (PA)	%	51	80	68	74
Sulfation (PA)	%	61	65	68	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	5	6
Sodium	ppm	3	3	2	5
Potassium	ppm	2	0	1	0



WEAR METALS

Iron	ppm	6	16	10	13
Copper	ppm	25	8	11	39
Lead	ppm	<1	0	<1	1
Tin	ppm	0	<1	<1	2
Aluminum	ppm	2	4	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	38	40	44	44
Nickel	ppm	1	5	1	2
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1595	1599	1677	1744
Magnesium	ppm	464	431	460	500
Zinc	ppm	989	980	1152	1198
Phosphorus	ppm	876	805	950	911
Barium	ppm	0	0	0	0
Boron	ppm	46	18	27	22

Depot: VOLV00129
Unique No: 10981653
Signed: Jonathan Hester
Report Date: 19 Apr 2024



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GRAPHS

