



CONSTRUCTION EQUIPMENT

VOLVO A40G 352509 - DIESEL ENGINE



Sample No: VCP439780
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP439780	VCP445547	VCP452332	VCP425807
Sample Date	01 Jul 2024	12 Apr 2024	16 Nov 2023	13 Jul 2023
Machine Hours	6258	6123	5500	4873
Oil Hours	0	500	500	500
Oil Changed	Not Changed	Changed	Changed	N/A
Sample Status	ATTENTION	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.2	12.2	12.7
Base Number (BN)	mg KOH/g	10.1	7.6	8.9	8.9
Oxidation (PA)	%	73	76	80	81

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 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	0.3	0.3	0.3
Nitration (PA)	%	49	83	79	78
Sulfation (PA)	%	58	58	58	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.8	<1.0
Silicon	ppm	4	6	6	5
Sodium	ppm	25	173	4	2
Potassium	ppm	2	4	0	<1



WEAR METALS

Iron	ppm	7	10	8	8
Copper	ppm	2	2	3	1
Lead	ppm	<1	1	<1	<1
Tin	ppm	0	1	<1	1
Aluminum	ppm	2	4	2	1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	56	48	47	44
Nickel	ppm	0	2	2	2
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1831	1542	1721	1795
Magnesium	ppm	592	629	504	529
Zinc	ppm	1255	1180	1116	1166
Phosphorus	ppm	1019	943	941	957
Barium	ppm	0	0	0	0
Boron	ppm	54	17	21	21

Depot: VOLVO0093
Unique No: 11114464
Signed: Sean Felton
Report Date: 10 Jul 2024



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GRAPHS

