



CONSTRUCTION EQUIPMENT

297628 VOLVO A40G 352463 - DIESEL ENGINE



Sample No: VCP427026
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 297628



SAMPLE INFORMATION

Sample Number	VCP427026	VCP382348	VCP386395	VCP362856
Sample Date	28 Jun 2023	21 Mar 2023	29 Sep 2022	15 Apr 2022
Machine Hours	5888	5136	4268	2875
Oil Hours	0	0	0	2875
Oil Changed	Changed	Changed	N/A	Not Changd
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL

SENECA MEADOWS
 1786 SALCMAN ROAD
 WATERLOO, NY
 US
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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	▲ 12.2	■ 12.8	■ 13.2
Base Number (BN)	mg KOH/g	■ 10.0	■ 10.8	■ 11.8	■ 7.8
Oxidation (PA)	%	80	80	85	62



CONTAMINATION

Soot %	%	■ 0.1	■ 0.2	■ 0.1	■ 0.1
Nitration (PA)	%	54	65	59	75
Sulfation (PA)	%	60	61	65	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	■ 0.6	<1.0	<1.0
Silicon	ppm	■ 3	■ 5	■ 4	■ 4
Sodium	ppm	■ 2	■ 2	■ 2	■ 2
Potassium	ppm	■ <1	■ 0	■ 0	■ 0



WEAR METALS

Iron	ppm	■ 5	■ 7	■ 3	■ 6
Copper	ppm	■ <1	■ 4	■ 0	■ 1
Lead	ppm	■ 0	■ 0	■ 0	■ <1
Tin	ppm	■ 0	■ 0	■ 0	■ <1
Aluminum	ppm	■ <1	■ <1	■ 0	■ 2
Chromium	ppm	■ 0	■ 0	■ 0	■ <1
Molybdenum	ppm	■ 44	■ 41	■ 39	■ 68
Nickel	ppm	■ 0	■ <1	■ 0	■ 1
Titanium	ppm	0	0	0	<1
Silver	ppm	■ 0	■ 0	0	0
Manganese	ppm	■ <1	■ <1	■ 0	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1715	■ 1683	■ 1638	■ 2132
Magnesium	ppm	■ 538	■ 493	■ 487	100
Zinc	ppm	■ 1294	■ 1107	■ 1087	■ 1196
Phosphorus	ppm	■ 1073	■ 859	■ 934	■ 1031
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 61	■ 50	■ 43	■ 74

Diagnosis

The oil change at the time of sampling has been noted. 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.

Depot: SENWAT
Unique No: 10545765
Signed: Don Baldrige
Report Date: 06 Jul 2023



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GRAPHS

