



CONSTRUCTION EQUIPMENT

VOLVO A40G 352463 - DIESEL ENGINE



Sample No: VCP417118
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP417118	VCP427026	VCP382348	VCP386395
Sample Date	28 Aug 2023	28 Jun 2023	21 Mar 2023	29 Sep 2022
Machine Hours	6364	5888	5136	4268
Oil Hours	0	0	0	0
Oil Changed	Not Changed	Changed	Changed	N/A
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL

SENECA MEADOWS
 1786 SALCMAN ROAD
 WATERLOO, NY
 US
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 ebarto@iesi.com
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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	▲ 12.2	▲ 12.2	■ 12.8
Base Number (BN)	mg KOH/g	■ 9.7	■ 10.0	■ 10.8	■ 11.8
Oxidation (PA)	%	76	80	80	85

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

Soot %	%	■ 0.1	■ 0.1	■ 0.2	■ 0.1
Nitration (PA)	%	53	54	65	59
Sulfation (PA)	%	58	60	61	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	■ 0.6	<1.0
Silicon	ppm	■ 5	■ 3	■ 5	■ 4
Sodium	ppm	■ 2	■ 2	■ 2	■ 2
Potassium	ppm	■ <1	■ <1	■ 0	■ 0

WEAR METALS

Iron	ppm	■ 4	■ 5	■ 7	■ 3
Copper	ppm	■ <1	■ <1	■ 4	■ 0
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ <1	■ 0	■ 0	■ 0
Aluminum	ppm	■ 2	■ <1	■ <1	■ 0
Chromium	ppm	■ 0	■ 0	■ 0	■ 0
Molybdenum	ppm	■ 42	■ 44	■ 41	■ 39
Nickel	ppm	■ 0	■ 0	■ <1	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	0
Manganese	ppm	■ <1	■ <1	■ <1	■ 0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	■ 1764	■ 1715	■ 1683	■ 1638
Magnesium	ppm	■ 541	■ 538	■ 493	■ 487
Zinc	ppm	■ 1212	■ 1294	■ 1107	■ 1087
Phosphorus	ppm	■ 1011	■ 1073	■ 859	■ 934
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 62	■ 61	■ 50	■ 43

Depot: SENWAT
Unique No: 10628664
Signed: Don Baldrige
Report Date: 31 Aug 2023

VOLVO **GRAPHS**

