CONSTRUCTION EQUIPMENT
W02007722-2   VOLVO A25G 752237 - DIESEL ENGINE

Sample No: VCP418748

Oil Type: MOBIL 15W40

Job No: W02007722-2

SAMPLE INFORMATION

Sample Number		**VCP418748**	VCP390522	VCP377797	VCP361819
Sample Date		**14 Nov 2023**	27 Apr 2023	30 Aug 2022	04 May 2022
Machine Hours		**3614**	2968	2148	1554
Oil Hours		**1300**	500	500	500
Oil Changed		**Changed**	Changed	Changed	Changed
Sample Status		**ATTENTION**	ATTENTION	ATTENTION	ATTENTION

OIL CONDITION

Visc @ 100°C	cSt	▲ **12.3**	▲ 11.9	▲ 12.4	▲ 11.8
Base Number (BN)	mg KOH/g	**8.5**	7.5	9.7	10.5
Oxidation (PA)	%	**69**	64	64	82

CONTAMINATION

Soot %	%	**0.2**	0.1	0.2	0.1
Nitration (PA)	%	**63**	61	63	60
Sulfation (PA)	%	**61**	53	57	64
Glycol	%	**NEG**	NEG	NEG	NEG
Fuel	%	**<1.0**	<1.0	<1.0	<1.0
Silicon	ppm	**4**	5	4	3
Sodium	ppm	**2**	<1	<1	2
Potassium	ppm	**0**	<1	<1	0

WEAR METALS

Iron	ppm	**4**	6	6	6
Copper	ppm	**2**	3	4	11
Lead	ppm	**0**	0	<1	<1
Tin	ppm	**<1**	<1	<1	1
Aluminum	ppm	**3**	2	<1	<1
Chromium	ppm	**0**	<1	<1	<1
Molybdenum	ppm	**88**	75	52	43
Nickel	ppm	**0**	<1	<1	0
Titanium	ppm	**0**	0	0	<1
Silver	ppm	**0**	<1	<1	<1
Manganese	ppm	**<1**	<1	<1	<1
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**1460**	1453	1230	1626
Magnesium	ppm	**608**	691	799	443
Zinc	ppm	**929**	1085	1142	1015
Phosphorus	ppm	**780**	905	988	886
Barium	ppm	**0**	0	0	0
Boron	ppm	**180**	127	23	69

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Diagnosis

Oil and filter 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: VOLVO0002
Unique No: 10743054
Signed: Don Baldridge
Report Date: 19 Nov 2023

GRAPHS

Iron (ppm)

Lead (ppm)

Aluminum (ppm)

Chromium (ppm)

Copper (ppm)

Silicon (ppm)

▲ Viscosity @ 100°C

Base Number

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