MOB I

VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area
[SWA568842]
Machine Id
AVANT 860 115761
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

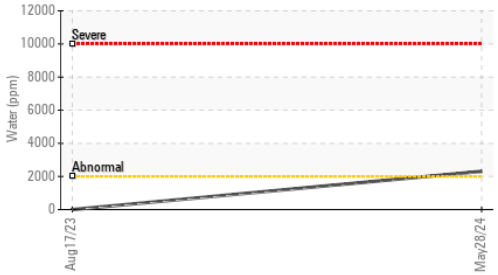
There is a light concentration of water present in the oil.

FLUID CONDITION

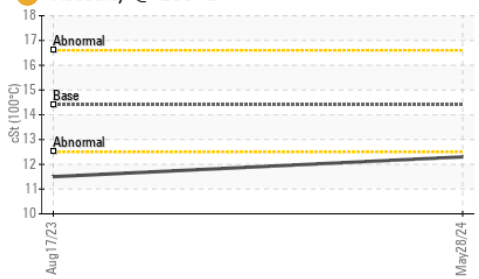
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP449524	VCP412126	---
Sample Date		Client Info		28 May 2024	17 Aug 2023	---
Machine Age	hrs	Client Info		431	70	---
Oil Age	hrs	Client Info		0	70	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	ATTENTION	---
Iron	ppm	ASTM D5185m	>100	13	12	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	<1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	2	2	---
Lead	ppm	ASTM D5185m	>40	<1	0	---
Copper	ppm	ASTM D5185m	>330	2	11	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	9	17	---
Potassium	ppm	ASTM D5185m	>20	2	<1	---
Fuel	%	ASTM D3524	>5	<1.0	0.6	---
Water	%	ASTM D6304	>0.2	▲ 0.231	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2310	---	---
Glycol	%	*ASTM D2982		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	6.3	8.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	20.3	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	NEG	---
Sodium	ppm	ASTM D5185m	>158	4	5	---
Boron	ppm	ASTM D5185m	250	67	128	---
Barium	ppm	ASTM D5185m	10	0	4	---
Molybdenum	ppm	ASTM D5185m	100	46	44	---
Manganese	ppm	ASTM D5185m		<1	6	---
Magnesium	ppm	ASTM D5185m	450	483	825	---
Calcium	ppm	ASTM D5185m	3000	1652	1396	---
Phosphorus	ppm	ASTM D5185m	1150	986	719	---
Zinc	ppm	ASTM D5185m	1350	1126	845	---
Sulfur	ppm	ASTM D5185m	4250	3361	3407	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.8	20.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.8	10.4	---
Visc @ 100°C	cSt	ASTM D445	14.4	● 12.3	● 11.5	---

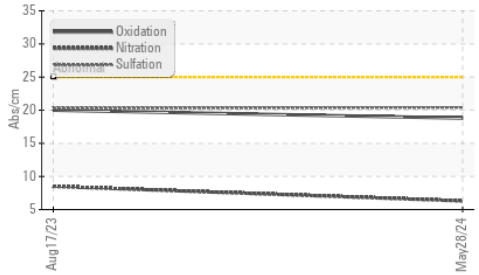
Water (KF)



Viscosity @ 100°C

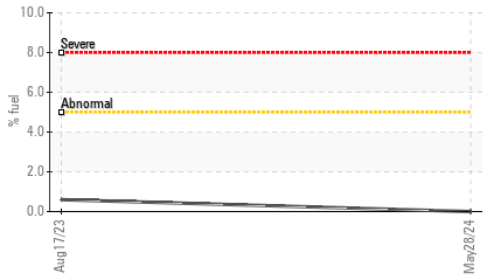


FT-IR (Direct Trend)

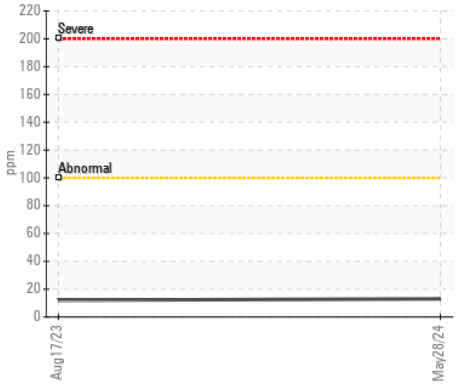


Base Number

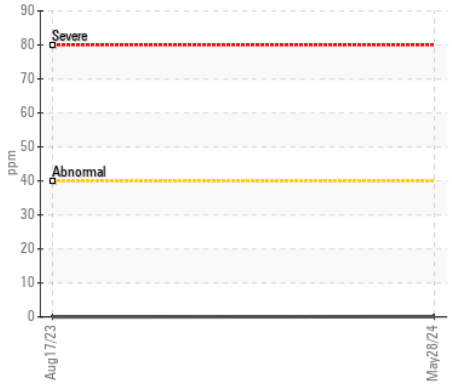
Fuel Dilution



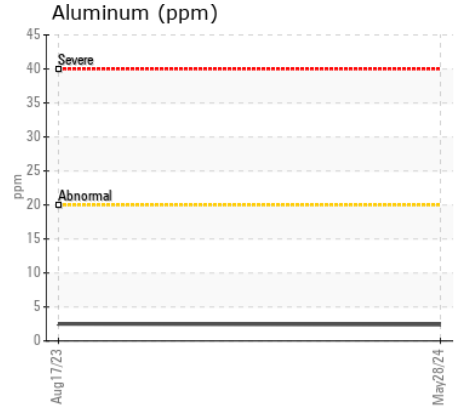
Iron (ppm)



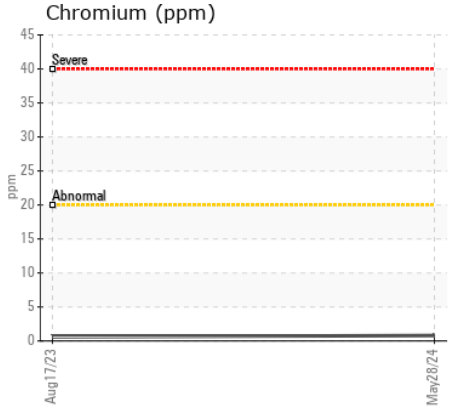
Lead (ppm)



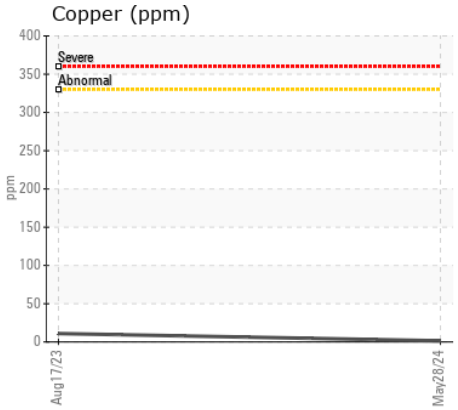
Aluminum (ppm)



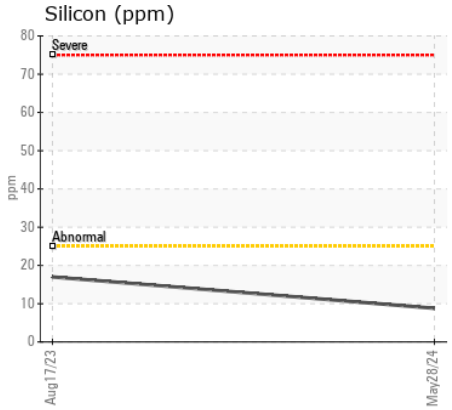
Chromium (ppm)



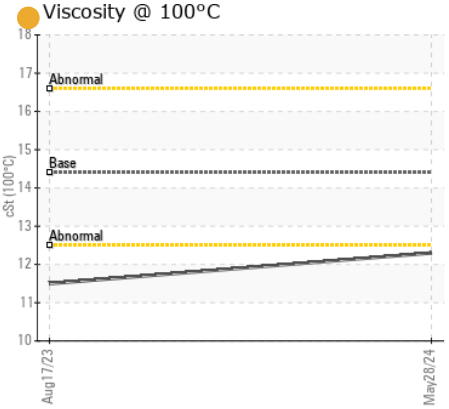
Copper (ppm)



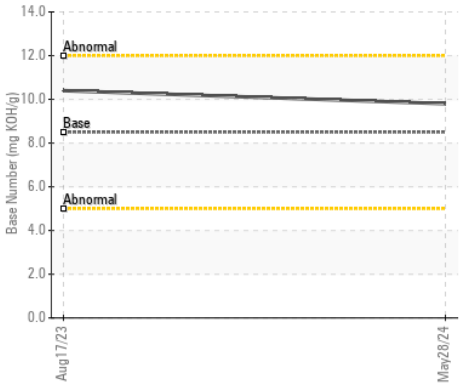
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP449524
Lab Number : 06197406
Unique Number : 11059529
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KF, TBN)
Received : 03 Jun 2024
Tested : 07 Jun 2024
Diagnosed : 07 Jun 2024 - Jonathan Hester

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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