MOB I

VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[20054]
Machine Id
VOLVO A45G 353445
Component
Diesel Engine
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

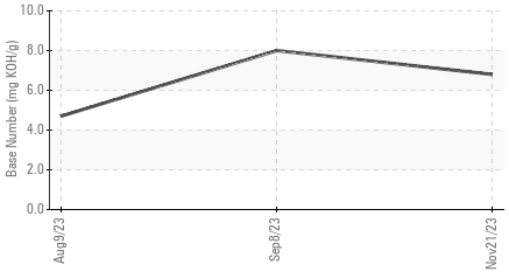
There is no indication of any contamination in the oil.

FLUID CONDITION

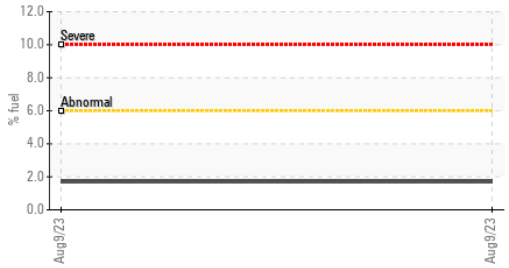
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP412169	VCP415491	VCP423916
Sample Date		Client Info		21 Nov 2023	08 Sep 2023	09 Aug 2023
Machine Age	hrs	Client Info		2378	1448	970
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	16	14	37
Chromium	ppm	ASTM D5185m	>20	0	<1	1
Nickel	ppm	ASTM D5185m	>2	6	3	▲ 8
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	3
Lead	ppm	ASTM D5185m	>40	1	2	3
Copper	ppm	ASTM D5185m	>330	21	68	158
Tin	ppm	ASTM D5185m	>15	<1	2	6
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	4	7	33
Potassium	ppm	ASTM D5185m	>20	0	<1	5
Fuel	%	ASTM D3524	>6.0	<1.0	<1.0	1.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	0.5	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.5	7.0	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.3	22.3
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		1	2	4
Boron	ppm	ASTM D5185m		9	3	14
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		58	65	80
Manganese	ppm	ASTM D5185m		0	<1	3
Magnesium	ppm	ASTM D5185m		870	894	74
Calcium	ppm	ASTM D5185m		1062	1294	2127
Phosphorus	ppm	ASTM D5185m		869	1010	897
Zinc	ppm	ASTM D5185m		1152	1263	1115
Sulfur	ppm	ASTM D5185m		2625	3590	3552
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	13.8	16.2
Base Number (BN)	mg KOH/g	ASTM D2896		6.8	8.0	4.7
Visc @ 100°C	cSt	ASTM D445		12.0	12.3	10.7

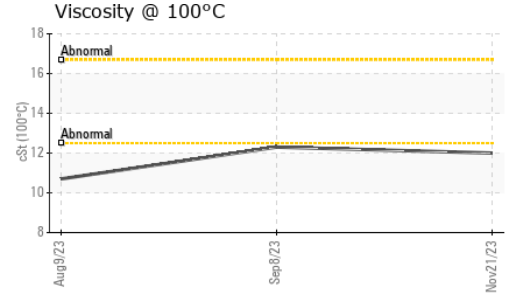
Base Number



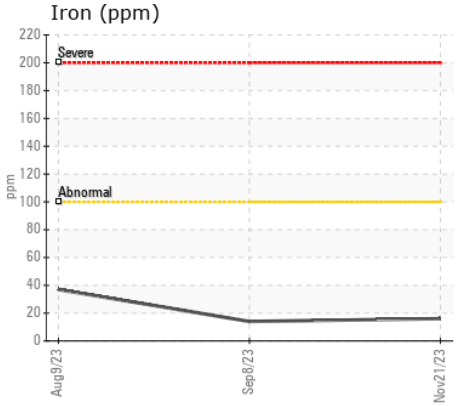
Fuel Dilution



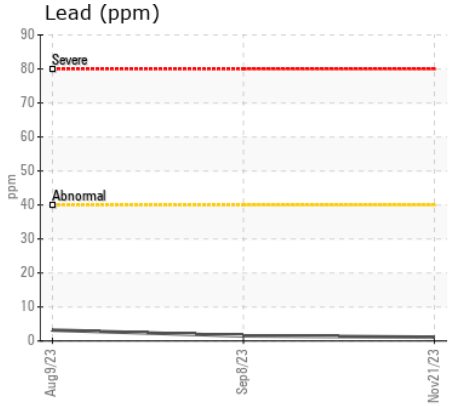
Viscosity @ 100°C



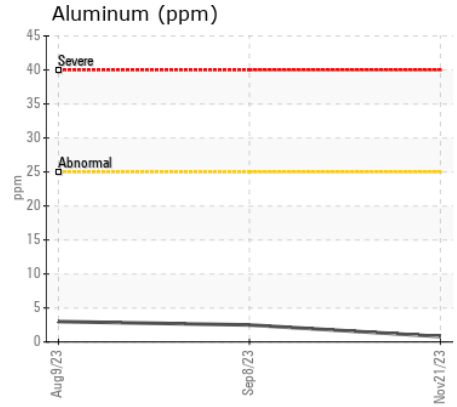
Iron (ppm)



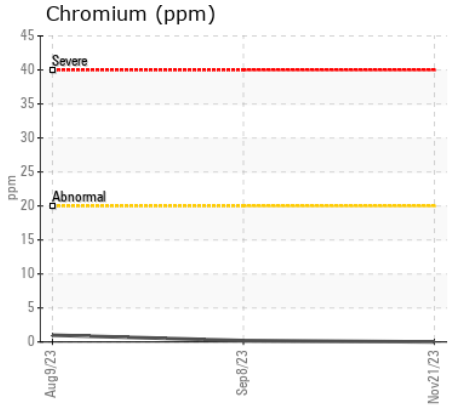
Lead (ppm)



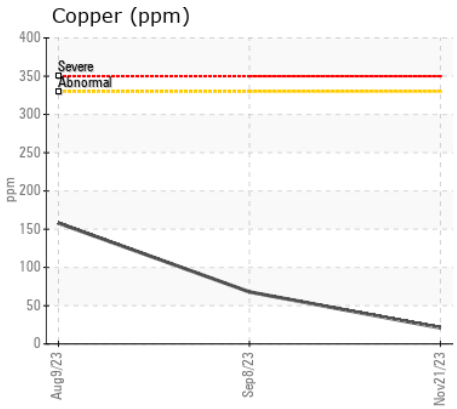
Aluminum (ppm)



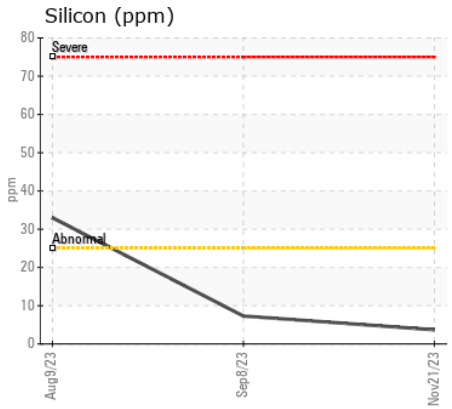
Chromium (ppm)



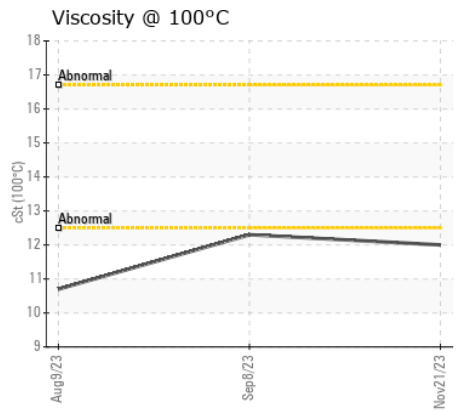
Copper (ppm)



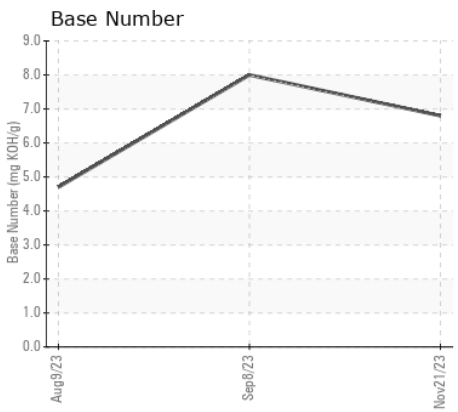
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP412169 **Recieved** : 11 Jan 2024
Lab Number : 06057636 **Diagnosed** : 12 Jan 2024
Unique Number : 10823585 **Diagnostician** : Don Baldridge
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

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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