MOBIL

VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area
[12058]
Machine Id
VOLVO A30D 12117
Component
Diesel Engine
Fluid
MOBIL 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

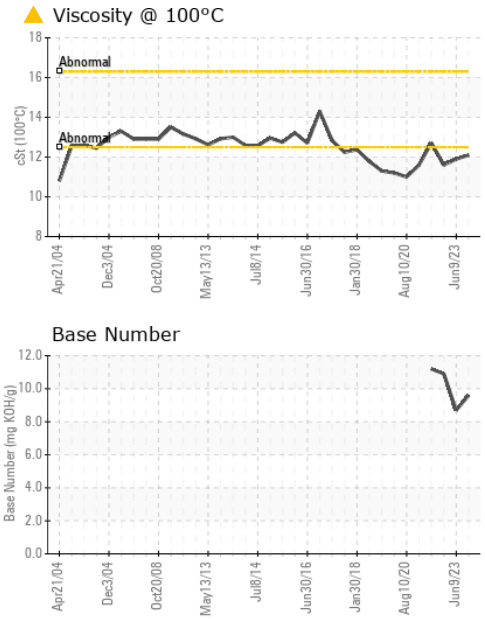
CONTAMINATION

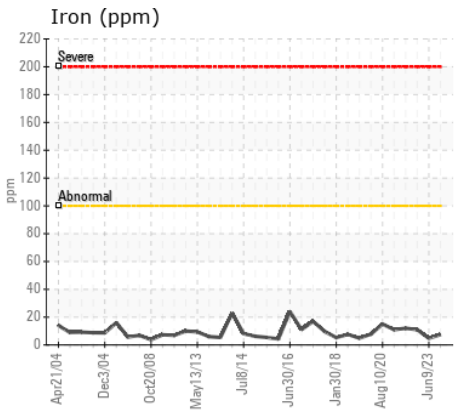
There is no indication of any contamination in the oil.

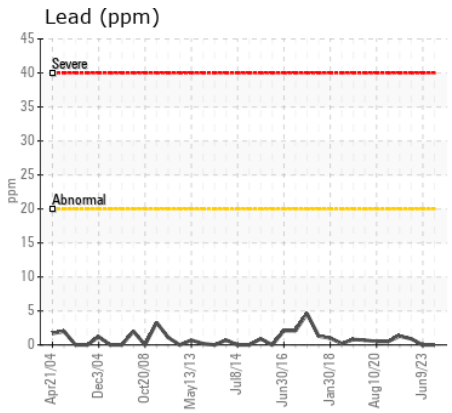
FLUID CONDITION

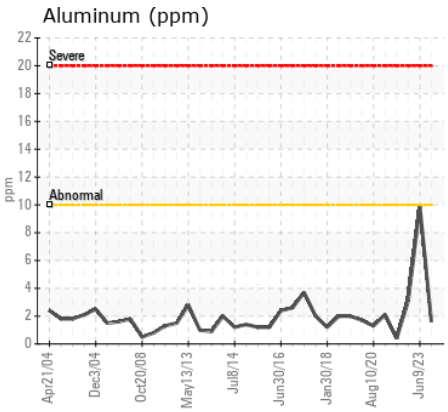
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

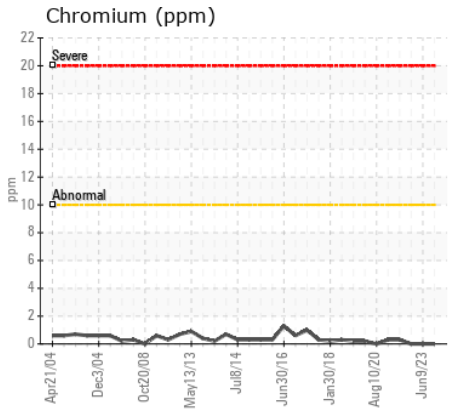
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP443155	VCP418606	VCP363762
Sample Date		Client Info		08 Feb 2024	09 Jun 2023	11 Aug 2022
Machine Age	hrs	Client Info		12796	12542	10465
Oil Age	hrs	Client Info		0	0	250
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION
Iron	ppm	ASTM D5185m	>100	7	5	11
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	2	10	3
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>15	2	0	2
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	5	2	5
Potassium	ppm	ASTM D5185m	>20	1	1	1
Fuel		WC Method	>3.0	<1.0	<1.0	▲ 2.6
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.1	6.3	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	19.3	22.7
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	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>118	0	2	0
Boron	ppm	ASTM D5185m		50	34	61
Barium	ppm	ASTM D5185m		12	0	0
Molybdenum	ppm	ASTM D5185m		37	29	50
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		436	362	450
Calcium	ppm	ASTM D5185m		1517	1977	1645
Phosphorus	ppm	ASTM D5185m		930	915	910
Zinc	ppm	ASTM D5185m		1044	1114	1058
Sulfur	ppm	ASTM D5185m		3081	3772	2938
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	15.8	19.7
Base Number (BN)	mg KOH/g	ASTM D2896		9.6	8.7	10.9
Visc @ 100°C	cSt	ASTM D445		▲ 12.1	▲ 11.9	▲ 11.6

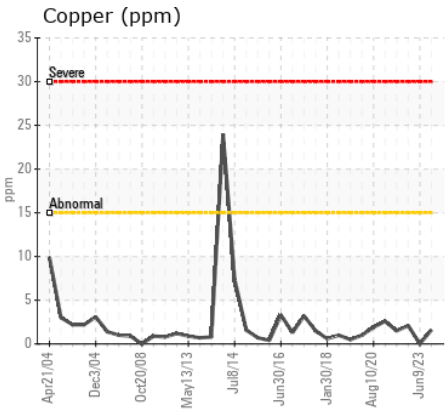


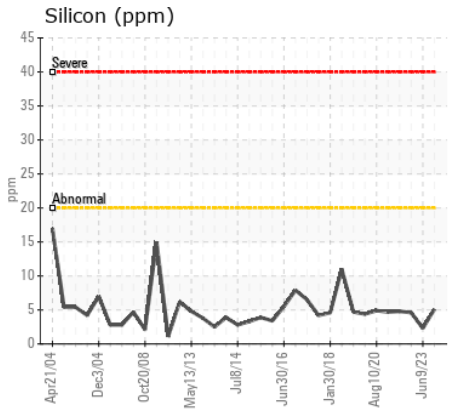


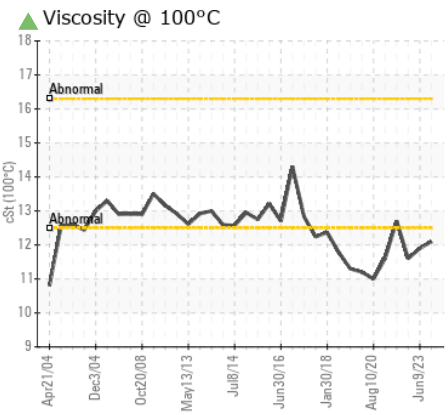


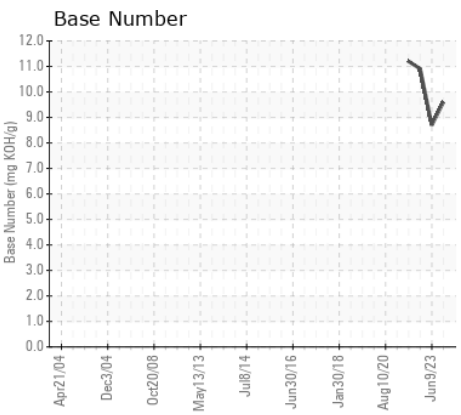












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP443155
Lab Number : 06088589
Unique Number : 10876034
Test Package : MOB 1 (Additional Tests: TBN)

Received : 14 Feb 2024
Tested : 15 Feb 2024
Diagnosed : 15 Feb 2024 - Jonathan Hester

Certificate L2367

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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