



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W02008216]
Machine Id
VOLVO EC300E 312949
Component
Diesel Engine
Fluid
MOBIL 15W40 (8 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W02008216)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0001132	VCP416213	VCP386194
Sample Date		Client Info		16 Apr 2024	25 Jul 2023	30 Sep 2022
Machine Age	hrs	Client Info		5175	4635	4054
Oil Age	hrs	Client Info		500	500	500
Filter Age	hrs	Client Info		500	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	10	11	15
Chromium	ppm	ASTM D5185m	>10	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>10	7	6	8
Lead	ppm	ASTM D5185m	>20	2	<1	1
Copper	ppm	ASTM D5185m	>15	3	2	3
Tin	ppm	ASTM D5185m	>10	2	<1	2
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

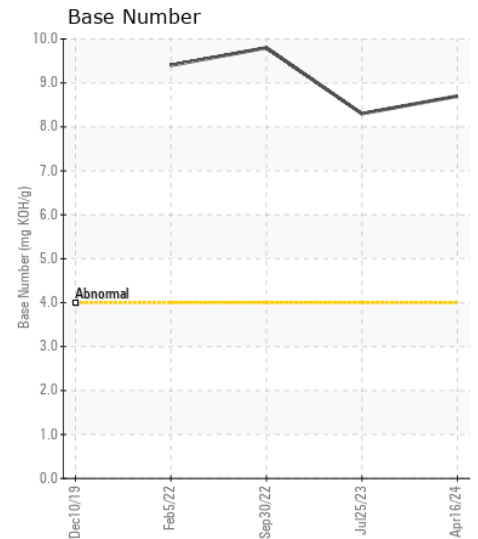
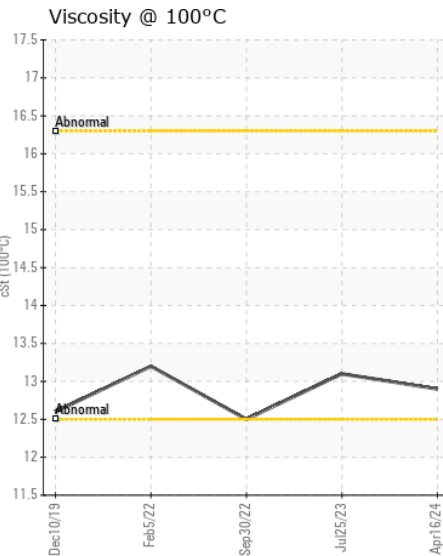
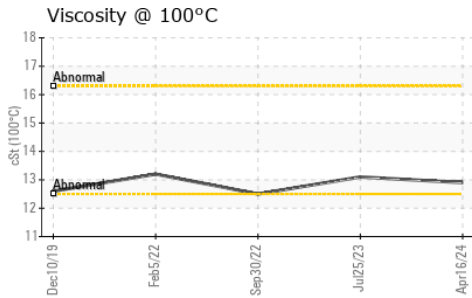
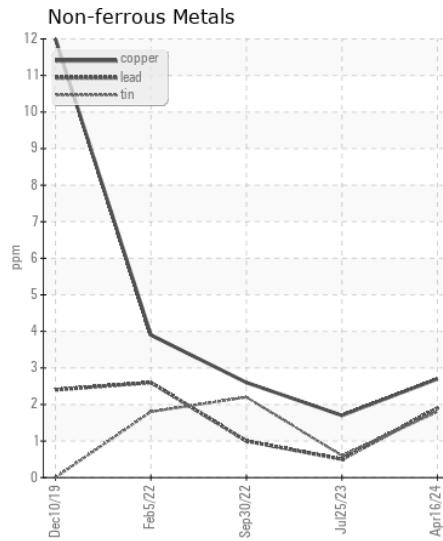
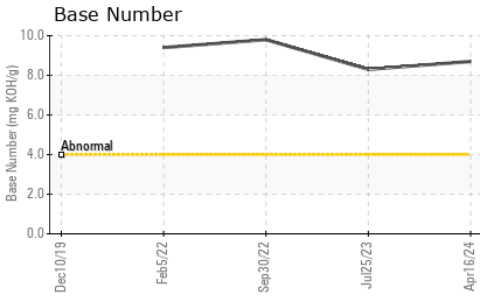
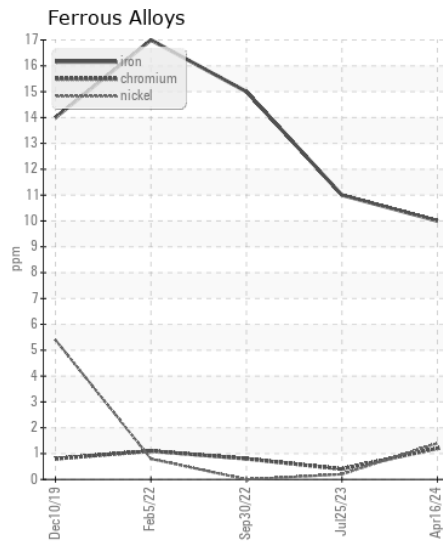
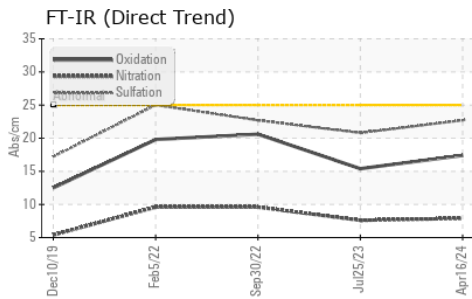
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	8	6	8
Potassium	ppm	ASTM D5185m	>20	4	2	8
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
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	7.9	7.6	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	20.8	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

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.

Sodium	ppm	ASTM D5185m	>118	<1	2	2
Boron	ppm	ASTM D5185m		308	205	41
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		122	79	55
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m		613	494	475
Calcium	ppm	ASTM D5185m		1555	1861	1760
Phosphorus	ppm	ASTM D5185m		802	803	861
Zinc	ppm	ASTM D5185m		878	987	1043
Sulfur	ppm	ASTM D5185m		2908	3358	3282
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	15.4	20.6
Base Number (BN)	mg KOH/g	ASTM D2896		8.7	8.3	9.8
Visc @ 100°C	cSt	ASTM D445		12.9	13.1	12.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0001132 **Received** : 18 Apr 2024
Lab Number : 06152747 **Tested** : 18 Apr 2024
Unique Number : 10982825 **Diagnosed** : 22 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: TBN)

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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)