



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Area
[11008]
Machine Id
VOLVO EC350E 314521
Component
Diesel Engine
Fluid
CHEVRON 15W40 (15 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ML0002080	ML0001173	VCP412688
Sample Date		Client Info		20 Jun 2024	19 Apr 2024	12 Dec 2023
Machine Age	hrs	Client Info		3652	3652	3435
Oil Age	hrs	Client Info		500	3652	0
Filter Age	hrs	Client Info		500	3652	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	3	5	2
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	4	2
Lead	ppm	ASTM D5185m	>20	0	<1	<1
Copper	ppm	ASTM D5185m	>15	2	2	3
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

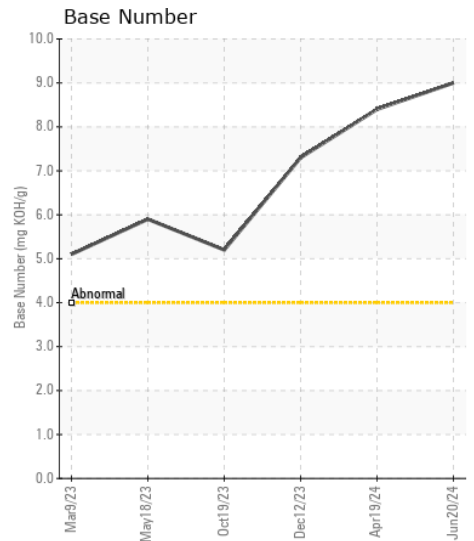
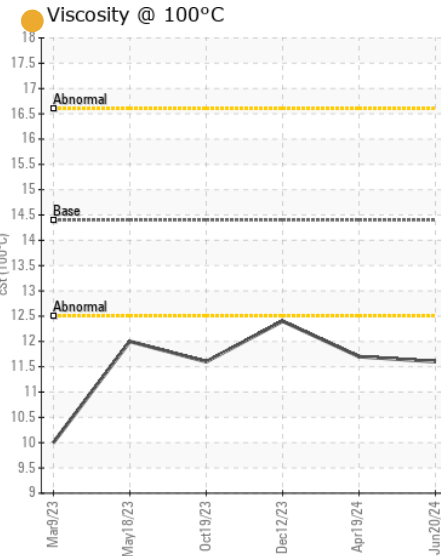
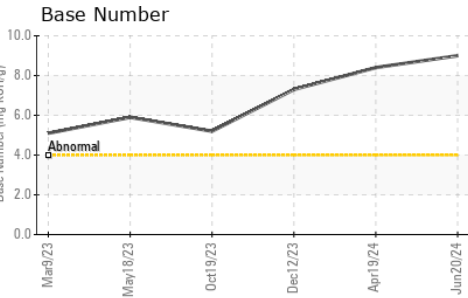
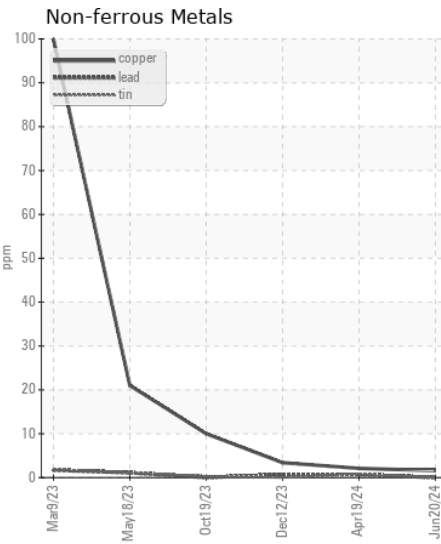
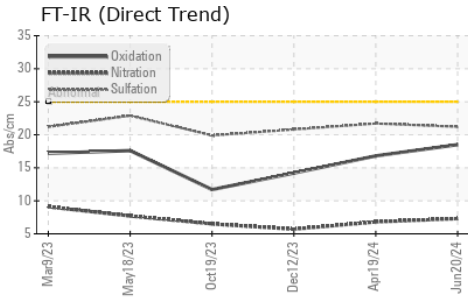
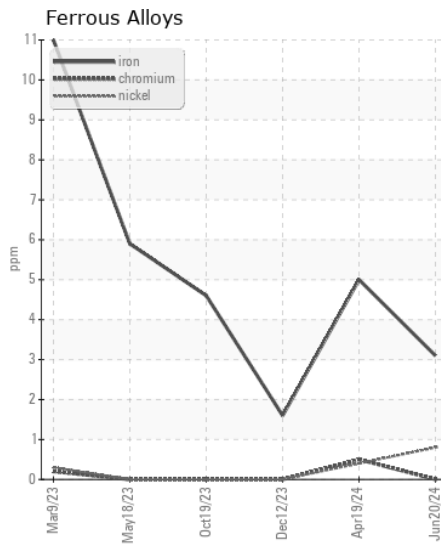
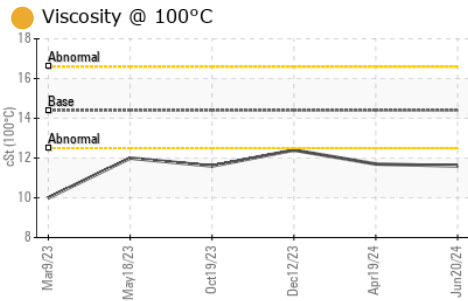
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	10	11	10
Potassium	ppm	ASTM D5185m	>20	3	2	0
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	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.8	5.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	21.7	20.8
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>50	3	2	0
Boron	ppm	ASTM D5185m		65	343	383
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		51	125	76
Manganese	ppm	ASTM D5185m		1	<1	0
Magnesium	ppm	ASTM D5185m		559	745	392
Calcium	ppm	ASTM D5185m		1693	1828	1591
Phosphorus	ppm	ASTM D5185m		940	1007	1093
Zinc	ppm	ASTM D5185m		1142	1185	1215
Sulfur	ppm	ASTM D5185m		3506	3674	3398
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	16.8	14.2
Base Number (BN)	mg KOH/g	ASTM D2896		9.0	8.4	7.3
Visc @ 100°C	cSt	ASTM D445	14.4	11.6	11.7	12.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ML0002080 **Received** : 27 Jun 2024
Lab Number : 06223018 **Tested** : 28 Jun 2024
Unique Number : 11101215 **Diagnosed** : 30 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: 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)

RECYCLE 1
 4700 LAWRENCE ST
 HYATTSVILLE, MD
 US 20781
 Contact: MIKE DESJARDINS
 mdesjarkins@wbwaste.com

T:
F: