



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[X59425 BOLLINGER]
Machine Id
VOLVO EC360BLC 80343
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP438243	VC044806	VCP259448
Sample Date		Client Info		08 Apr 2024	31 Aug 2007	09 Apr 2007
Machine Age	hrs	Client Info		5349	2350	1437
Oil Age	hrs	Client Info		2	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	15	20	34
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	1	5
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	1	1	3
Lead	ppm	ASTM D5185m	>20	<1	2	5
Copper	ppm	ASTM D5185m	>15	<1	8	▲ 224
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

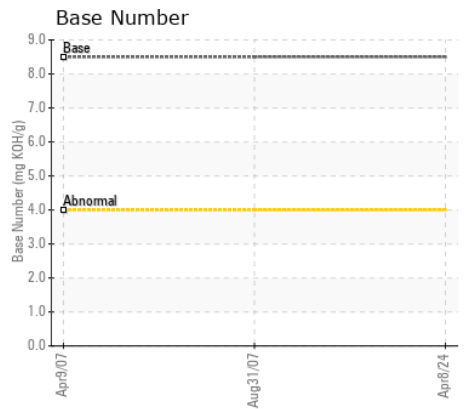
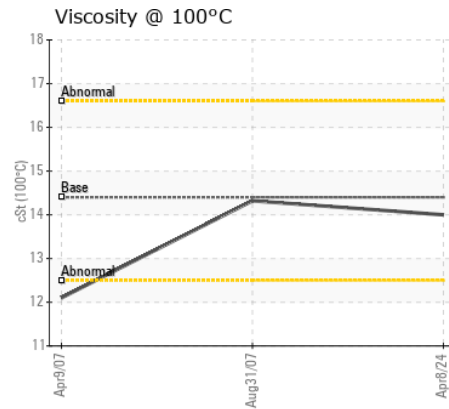
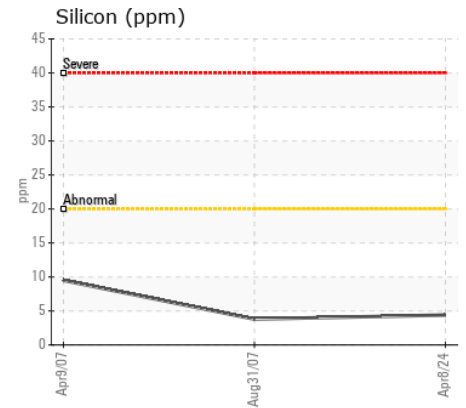
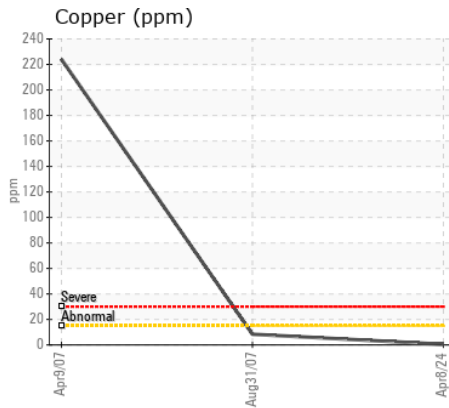
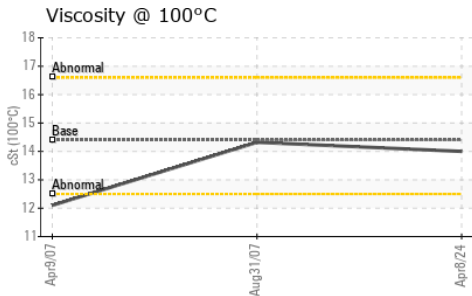
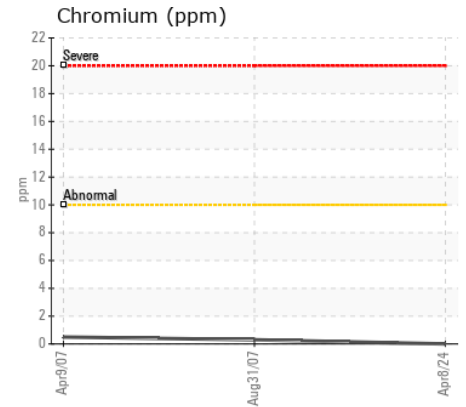
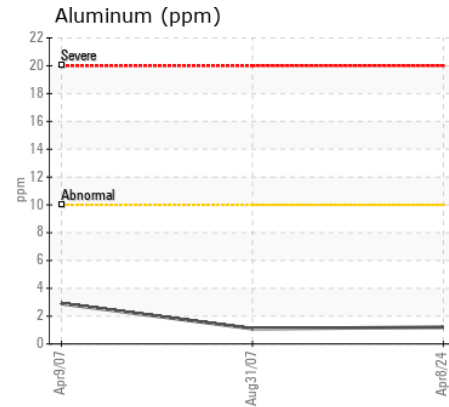
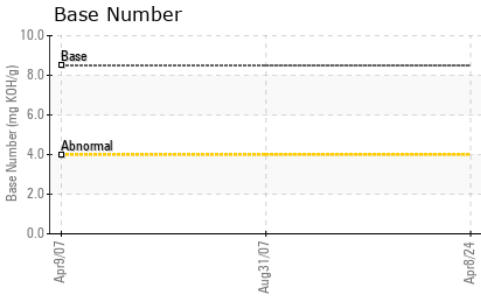
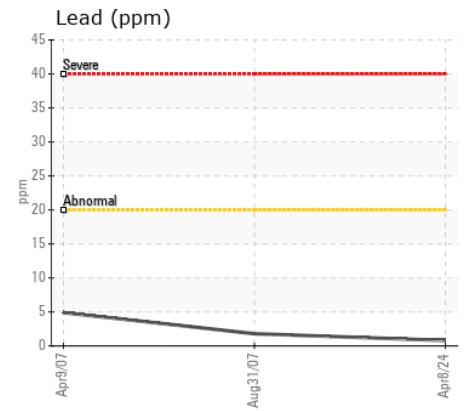
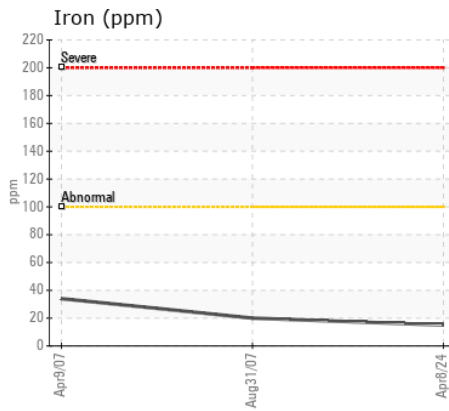
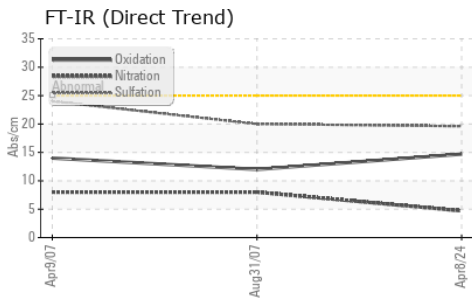
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	4	4	10
Potassium	ppm	ASTM D5185m	>20	5	0	10
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	0.9	0.6
Nitration	Abs/cm	*ASTM D7624	>20	4.7	8.	8.
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	20.	24.
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	>158	<1	2	4
Boron	ppm	ASTM D5185m	250	236	1	2
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	22	<1	1
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	450	83	190	34
Calcium	ppm	ASTM D5185m	3000	2514	2065	2363
Phosphorus	ppm	ASTM D5185m	1150	1055	932	953
Zinc	ppm	ASTM D5185m	1350	1304	1059	1067
Sulfur	ppm	ASTM D5185m	4250	4494	4378	5216
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	12.	14.
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.8	---	---
Visc @ 100°C	cSt	ASTM D445	14.4	14.0	14.32	12.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP438243 **Received** : 11 Apr 2024
Lab Number : 06145699 **Tested** : 12 Apr 2024
Unique Number : 10970507 **Diagnosed** : 12 Apr 2024 - Wes Davis
Test Package : MOB 1 (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)