



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id  
**VOLVO EC360BLC 8358 (S/N 80293)**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0888191</b>	WC0831312	WC0797811
Sample Date		Client Info		<b>01 Feb 2024</b>	20 Sep 2023	12 Apr 2023
Machine Age	hrs	Client Info		<b>4124</b>	3643	3051
Oil Age	hrs	Client Info		<b>481</b>	583	401
Filter Age	hrs	Client Info		<b>481</b>	583	401
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>11</b>	8	8
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	1	1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>9</b>	6	2
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>15	<b>1</b>	1	1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

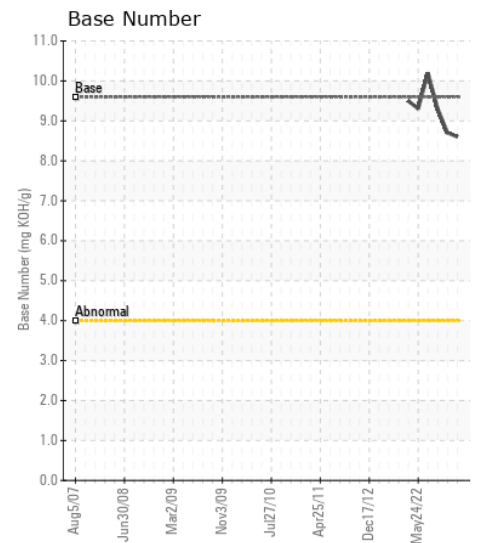
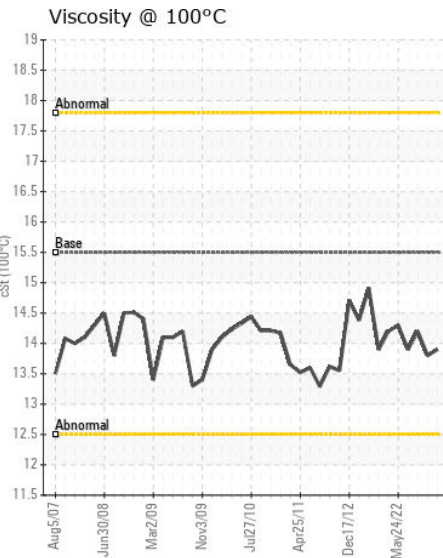
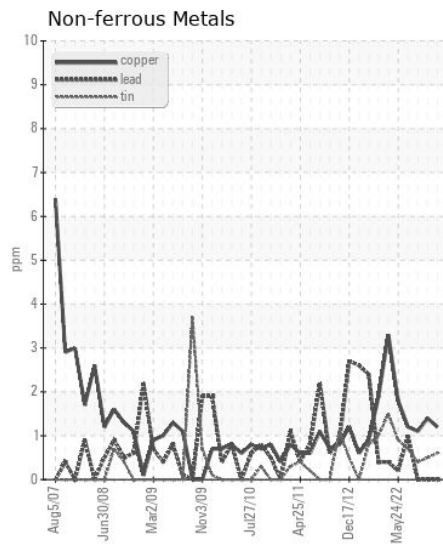
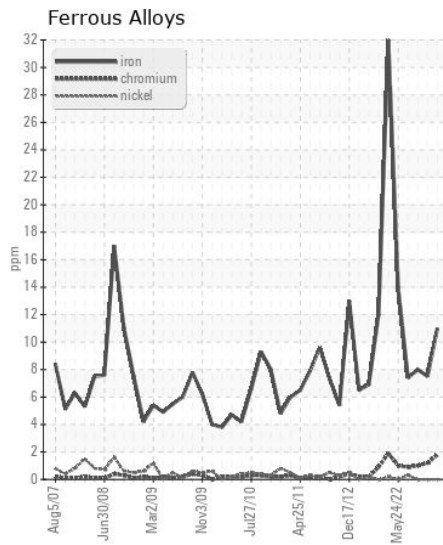
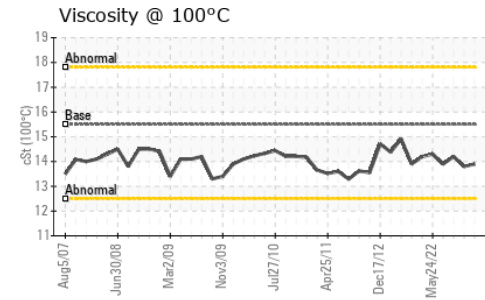
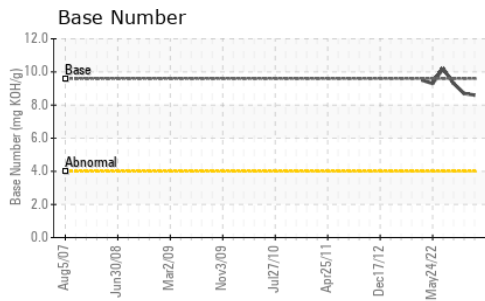
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>19</b>	16	5
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	4	2
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.5</b>	6.5	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.1</b>	17.6	17.4
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	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		<b>&lt;1</b>	<1	0
Boron	ppm	ASTM D5185m	1	<b>4</b>	6	0
Barium	ppm	ASTM D5185m	1	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>63</b>	61	58
Manganese	ppm	ASTM D5185m	1	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>952</b>	876	882
Calcium	ppm	ASTM D5185m	1070	<b>1063</b>	1082	999
Phosphorus	ppm	ASTM D5185m	1150	<b>1085</b>	1020	991
Zinc	ppm	ASTM D5185m	1270	<b>1270</b>	1225	1153
Sulfur	ppm	ASTM D5185m	2060	<b>3058</b>	3467	2855
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.4</b>	13.8	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	<b>8.6</b>	8.7	9.3
Visc @ 100°C	cSt	ASTM D445	15.5	<b>13.9</b>	13.8	14.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0888191 **Received** : 08 Feb 2024  
**Lab Number** : 06083475 **Tested** : 09 Feb 2024  
**Unique Number** : 10870920 **Diagnosed** : 09 Feb 2024 - Wes Davis  
**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)