



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**PIERCE 2953**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON DELO 400 XLE 15W40 (32 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0830457</b>	WC0741896	WC0666076
Sample Date		Client Info		<b>15 Jun 2023</b>	03 Oct 2022	25 Feb 2022
Machine Age	hrs	Client Info		<b>10821</b>	10230	9608
Oil Age	hrs	Client Info		<b>1213</b>	622	1003
Filter Age	hrs	Client Info		<b>591</b>	622	574
Oil Changed		Client Info		<b>Changed</b>	Not 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	>65	<b>27</b>	15	22
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>5	<b>10</b>	10	11
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>35	<b>8</b>	4	8
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>180	<b>4</b>	3	6
Tin	ppm	ASTM D5185m	>8	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

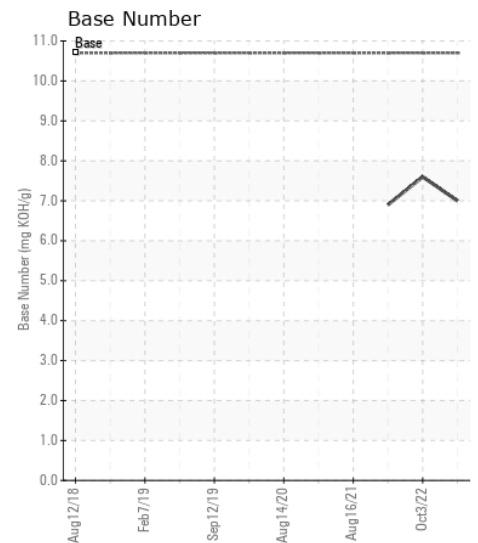
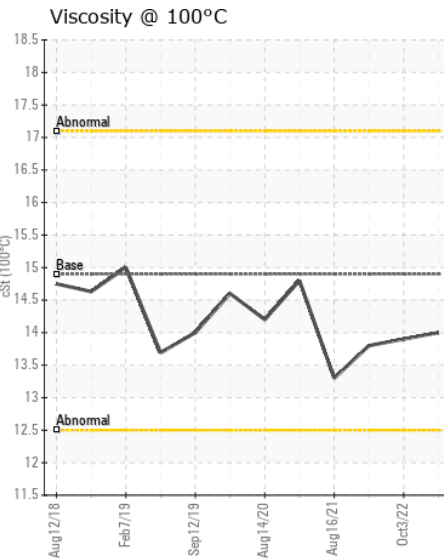
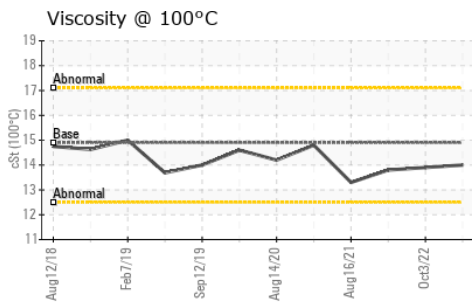
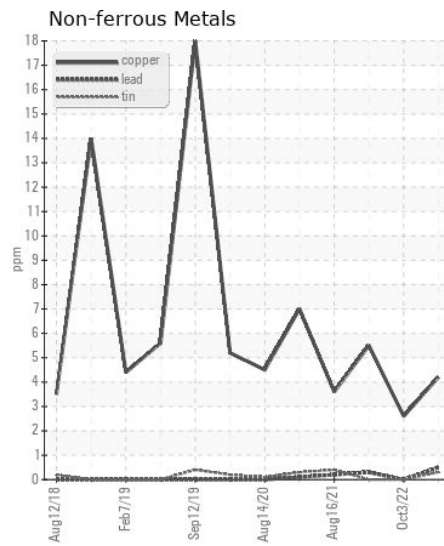
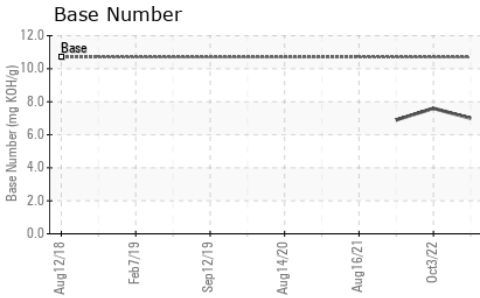
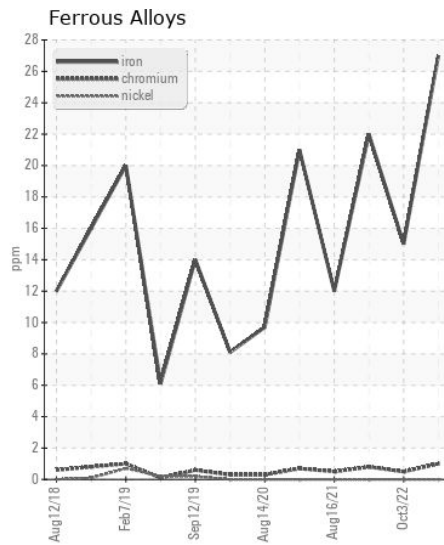
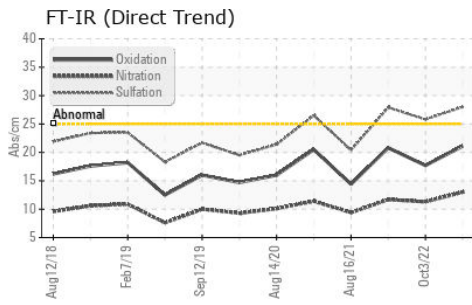
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	<b>6</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>10</b>	6	9
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>2.2</b>	1.6	1.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.0</b>	11.3	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>28.0</b>	25.8	27.9
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	>0.2	<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>16</b>	11	14
Boron	ppm	ASTM D5185m		<b>27</b>	42	29
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>60</b>	55	48
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>645</b>	641	726
Calcium	ppm	ASTM D5185m		<b>1495</b>	1391	1595
Phosphorus	ppm	ASTM D5185m	760	<b>748</b>	696	758
Zinc	ppm	ASTM D5185m	830	<b>902</b>	859	857
Sulfur	ppm	ASTM D5185m	2770	<b>2833</b>	3437	2708
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.1</b>	17.7	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	<b>7.0</b>	7.6	6.9
Visc @ 100°C	cSt	ASTM D445	14.9	<b>14.0</b>	13.9	13.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0830457  
**Lab Number** : 05895572  
**Unique Number** : 10551382  
**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)