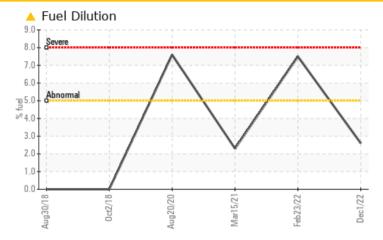


# PIERCE 2766

### Component Diesel Engine Fluid CHEVRON DELO 400 XLE 15W40 (35 QTS)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status				MARGINAL	SEVERE	MARGINAL	
Fuel	%	ASTM D3524	>5	<u> </u>	7.5	<1.0	

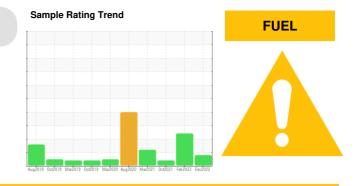
Customer Id: TOWCARNC Sample No.: WC0741904 Lab Number: 05716959 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		

### HISTORICAL DIAGNOSIS



### 23 Feb 2022 Diag: Jonathan Hester

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



view report

### 01 Oct 2021 Diag: Jonathan Hester



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

### 15 Mar 2021 Diag: Doug Bogart



No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates.All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity.

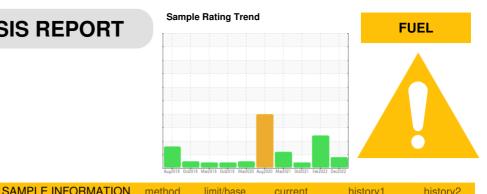




Report Id: TOWCARNC [WUSCAR] 05716959 (Generated: 10/12/2023 17:18:10) Rev: 1



## **OIL ANALYSIS REPORT**



Machine Id **PIERCE 2766** Component

### **Diesel Engine**

Fluid CHEVRON DELO 400 XLE 15W40 (35 QTS)

### DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring.

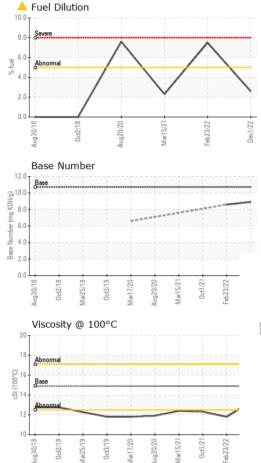
### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

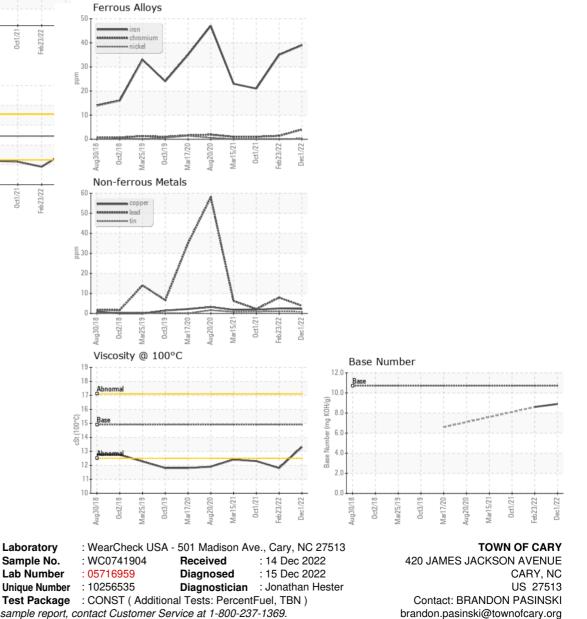
SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age	hrs	Client Info Client Info Client Info		WC0741904 01 Dec 2022 9278	WC0680420 23 Feb 2022 8876	WC0617001 01 Oct 2021 8627
Oil Age Oil Changed Sample Status	hrs	Client Info Client Info		402 Changed MARGINAL	529 Changed SEVERE	280 Not Changd MARGINAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	39	35	21
Chromium	ppm	ASTM D5185m	>10	4	1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	10	11
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>30	7	11	9
Lead	ppm	ASTM D5185m	>30	4	8	2
Copper	ppm	ASTM D5185m	>30	2	2	2
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		30	37	69
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		66	37	44
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		319	559	678
Calcium	ppm	ASTM D5185m		1759	1330	1438
Phosphorus	ppm	ASTM D5185m	760	895	538	706
Zinc	ppm	ASTM D5185m	830	1110	682	859
Sulfur	ppm	ASTM D5185m	2770	3712	2209	2836
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	18	7	6
Sodium	ppm	ASTM D5185m		6	8	8
Potassium	ppm	ASTM D5185m	>20	6	11	11
Fuel	%	ASTM D3524	>5	<u> </u>	7.5	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2	2.8	1.8
Nitration	Abs/cm	*ASTM D7624	>20	11.6	14.1	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2	30.5	23.6
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	22.2	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	8.9	8.6	



## **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.9	13.3	<b>1</b> 1.8	<b>1</b> 2.3
GRAPHS						



 Certificate L2367
 Test Package
 : CONST (Additional Tests: PercentFuel, TBN)
 CC

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 brar

 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 brar

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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