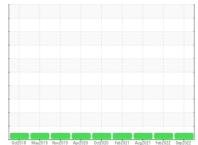


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id **PIERCE 0198** 

Component
Diesel Engine

**CHEVRON DELO 400 XLE 15W40 (33 QTS)** 

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

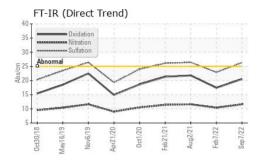
## **Fluid Condition**

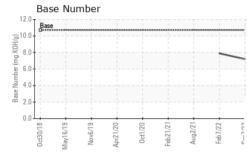
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

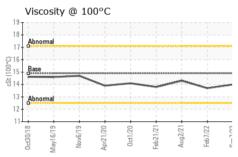
		Oct2018 Ma	y2019 Nov2019 Apr2020	Oct2020 Feb2021 Aug2021 Feb20	22 Sep2022	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0708753	WC0657409	WC0589181
Sample Date		Client Info		07 Sep 2022	07 Feb 2022	02 Aug 2021
Machine Age	hrs	Client Info		4381	3948	3517
Oil Age	hrs	Client Info		864	431	918
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>65	21	13	24
Chromium	ppm	ASTM D5185m	>5	<1	<1	2
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>5	13	12	12
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>35	13	8	16
Lead	ppm	ASTM D5185m	>10	<1	<1	0
Copper	ppm	ASTM D5185m	>180	9	7	12
Tin	ppm	ASTM D5185m	>8	<1	<1	<1
Antimony	ppm	ASTM D5185m	>35		<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		33	99	21
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		46	43	43
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		636	711	724
Calcium	ppm	ASTM D5185m		1502	1616	1507
Phosphorus	ppm	ASTM D5185m	760	744	813	700
Zinc	ppm	ASTM D5185m	830	903	914	838
Sulfur	ppm	ASTM D5185m	2770	3013	2656	2585
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4	4	4
Sodium	ppm	ASTM D5185m		12	8	14
Potassium	ppm	ASTM D5185m	>20	19	13	28
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.6	1.1
Nitration	Abs/cm	*ASTM D7624	>20	11.6	10.4	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.3	22.9	26.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.5	17.4	21.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	7.2	7.9	
- 4- 40\ D						

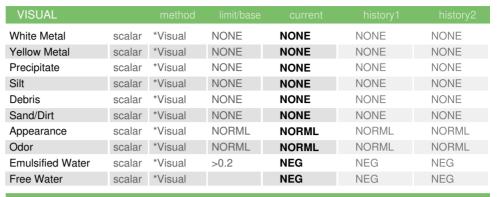


## **OIL ANALYSIS REPORT**



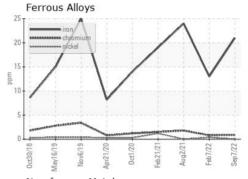


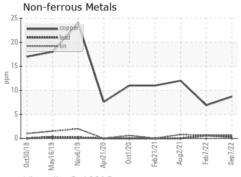


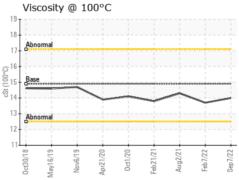


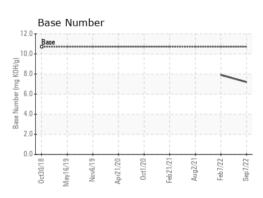
FLUID PROPER	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	14.9	14.0	13.7	14.3

#### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: WC0708753 Lab Number : 05636992 Unique Number : 10126522

Test Package : CONST ( Additional Tests: TBN )

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

: 08 Sep 2022 **Tested** Diagnosed

: 09 Sep 2022 : 09 Sep 2022 - Wes Davis

US 27513 Contact: BRANDON PASINSKI brandon.pasinski@townofcary.org

420 JAMES JACKSON AVENUE

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) **TOWN OF CARY** 

T: (919)469-4098

F: (919)380-6420

CARY, NC