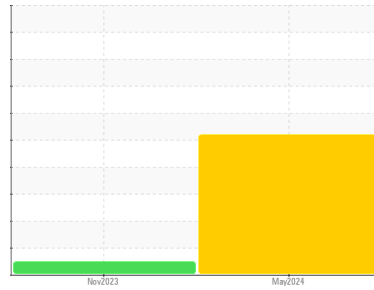


# OIL ANALYSIS REPORT

## Sample Rating Trend



WATER



Machine Id  
**1019 TR 338**

Component  
**Diesel Engine**

Fluid  
**CHEVRON DELO 400 SAE 10W30 (--- GAL)**

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

There is a trace of moisture present in the oil.

#### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PCA0101418</b>	PCA0101390	---
Sample Date	Client Info			<b>22 May 2024</b>	22 Nov 2023	---
Machine Age	mls	Client Info		<b>295685</b>	285383	---
Oil Age	mls	Client Info		<b>0</b>	0	---
Oil Changed	Client Info			<b>N/A</b>	N/A	---
Sample Status				<b>ATTENTION</b>	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method		>3.0	<b>&lt;1.0</b>	<1.0	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>65	<b>13</b>	25	---
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>35	<b>14</b>	6	---
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>180	<b>6</b>	15	---
Tin	ppm	ASTM D5185m	>8	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

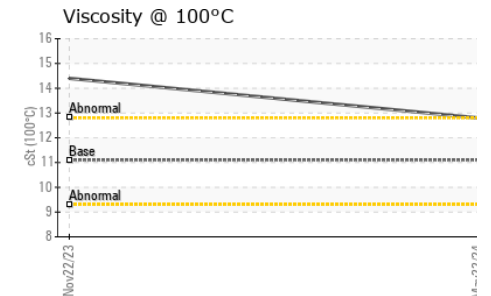
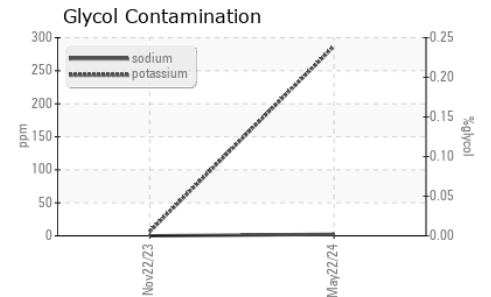
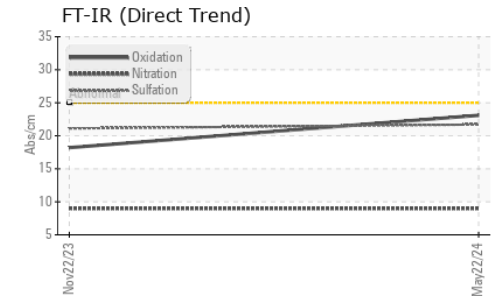
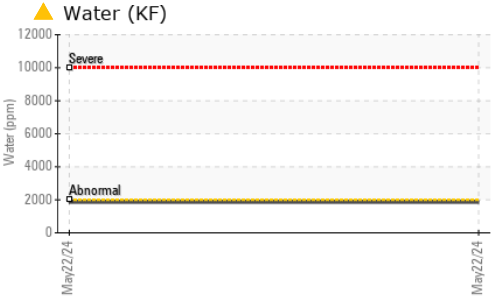
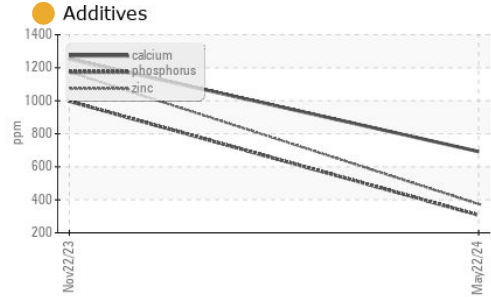
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>252</b>	8	---
Barium	ppm	ASTM D5185m		<b>4</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>781</b>	58	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m		<b>313</b>	838	---
Calcium	ppm	ASTM D5185m		<b>692</b>	1252	---
Phosphorus	ppm	ASTM D5185m	1260	<b>307</b>	997	---
Zinc	ppm	ASTM D5185m	1400	<b>374</b>	1174	---
Sulfur	ppm	ASTM D5185m		<b>2511</b>	2861	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>11</b>	8	---
Sodium	ppm	ASTM D5185m		<b>2</b>	0	---
Potassium	ppm	ASTM D5185m	>20	<b>287</b>	7	---
Water	%	ASTM D6304	>0.2	<b>0.186</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>1860</b>	---	---
Glycol	%	*ASTM D2982		<b>NEG</b>	NEG	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.0</b>	9.0	---
Sulfation	Abs.1mm	*ASTM D7415	>30	<b>21.7</b>	21.1	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs.1mm	*ASTM D7414	>25	<b>23.1</b>	18.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>7.72</b>	9.62	---

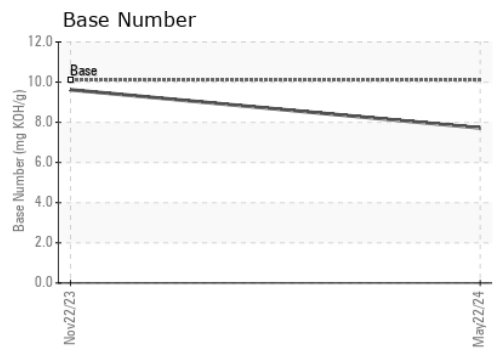
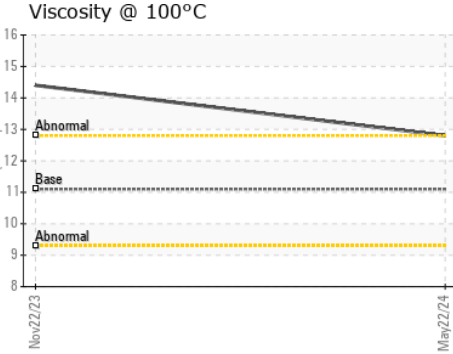
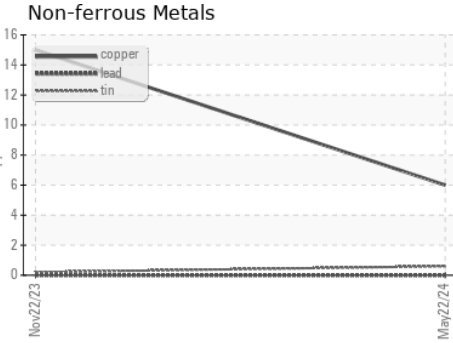
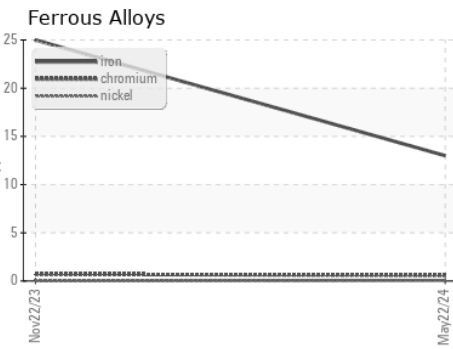
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.1	12.8	14.4

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0101418      **Received** : 23 May 2024  
**Lab Number** : 06189481      **Tested** : 03 Jun 2024  
**Unique Number** : 11046233      **Diagnosed** : 03 Jun 2024 - Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: Glycol, KF )

**DELTA FUEL COMPANY**  
 1000 WELLS ISLAND RD  
 SHREVEPORT, LA  
 US 71107  
 Contact: BRAD GORDON  
 bgordon@deltafuel.com  
 T: (318)780-3921  
 F:

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)