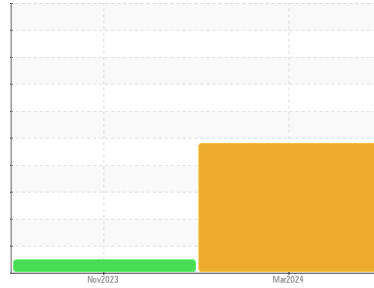


OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id
1019 BF 204

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

Moderate concentration of visible metal present. All component wear rates are normal.

● Contamination

There is no indication of any contamination 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		PCA0101413	PCA0101397	---
Sample Date	Client Info		18 Mar 2024	22 Nov 2023	---
Machine Age	mls	Client Info	242268	233265	---
Oil Age	mls	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	---
Water	WC Method	>0.2	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>90	31	53	---
Chromium	ppm	ASTM D5185m	>20	1	2	---
Nickel	ppm	ASTM D5185m	>2	<1	<1	---
Titanium	ppm	ASTM D5185m	>2	<1	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>20	13	2	---
Lead	ppm	ASTM D5185m	>40	2	5	---
Copper	ppm	ASTM D5185m	>330	2	2	---
Tin	ppm	ASTM D5185m	>15	1	1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	314	251	---	
Barium	ppm	ASTM D5185m	5	0	---	
Molybdenum	ppm	ASTM D5185m	976	96	---	
Manganese	ppm	ASTM D5185m	<1	<1	---	
Magnesium	ppm	ASTM D5185m	132	366	---	
Calcium	ppm	ASTM D5185m	539	1389	---	
Phosphorus	ppm	ASTM D5185m	1260	129	1063	---
Zinc	ppm	ASTM D5185m	1400	154	1252	---
Sulfur	ppm	ASTM D5185m		2427	3135	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	13	8	---
Sodium	ppm	ASTM D5185m		5	7	---
Potassium	ppm	ASTM D5185m	>20	350	4	---
Glycol	%	*ASTM D2982		NEG	NEG	---

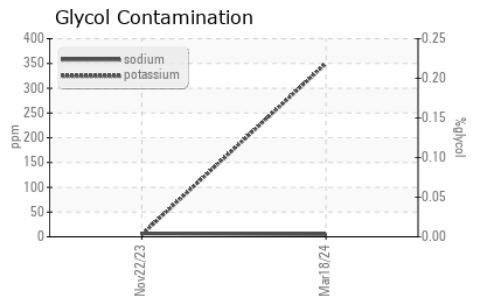
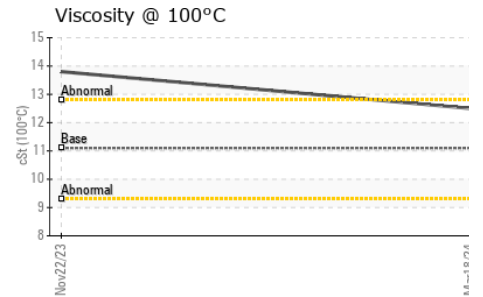
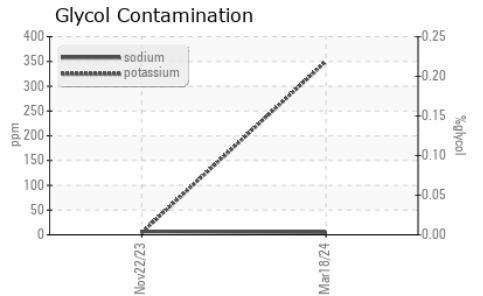
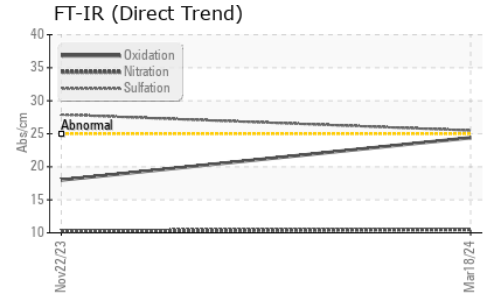
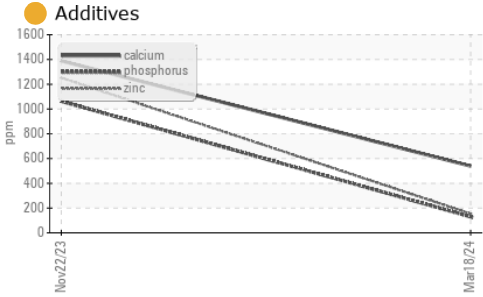
INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	2.5	3.4	---
Nitration	Abs/cm	*ASTM D7624	>20	10.5	10.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.5	27.9	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.4	18.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	9.24	8.17	---

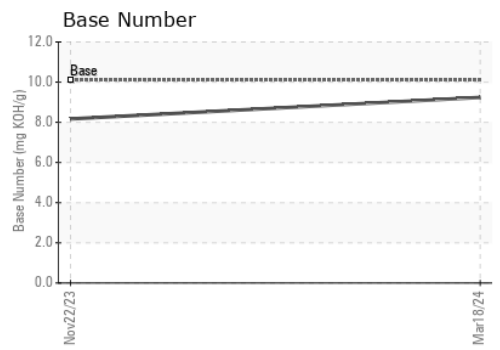
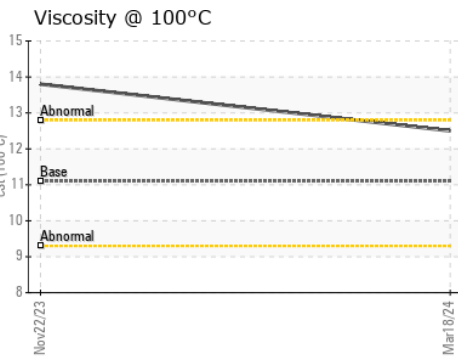
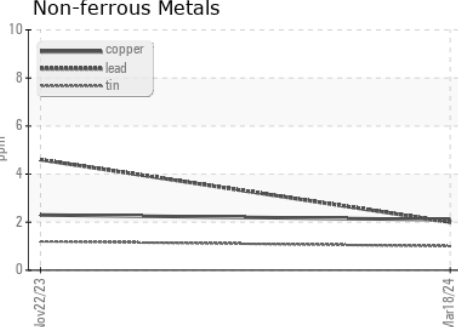
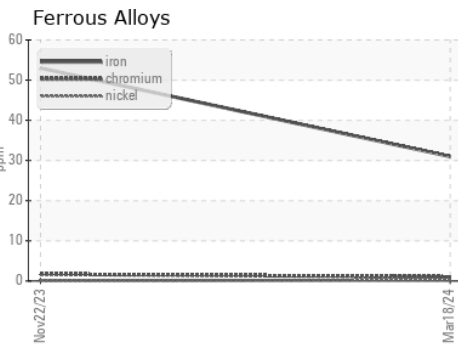
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.1	12.5	13.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0101413 **Received** : 23 May 2024
Lab Number : 06189474 **Tested** : 03 Jun 2024
Unique Number : 11046226 **Diagnosed** : 03 Jun 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: Glycol)

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)