



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id  
**0807110**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)**

## RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0748602	---	---
Sample Date		Client Info		11 Apr 2024	---	---
Machine Age	hrs	Client Info		20097	---	---
Oil Age	hrs	Client Info		3239	---	---
Filter Age	hrs	Client Info		454	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	68	---	---
Chromium	ppm	ASTM D5185m	>20	5	---	---
Nickel	ppm	ASTM D5185m	>4	2	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m	>3	<1	---	---
Aluminum	ppm	ASTM D5185m	>20	9	---	---
Lead	ppm	ASTM D5185m	>40	2	---	---
Copper	ppm	ASTM D5185m	>330	3	---	---
Tin	ppm	ASTM D5185m	>15	2	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

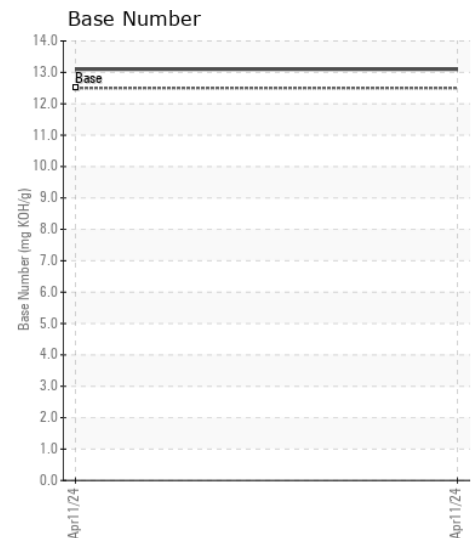
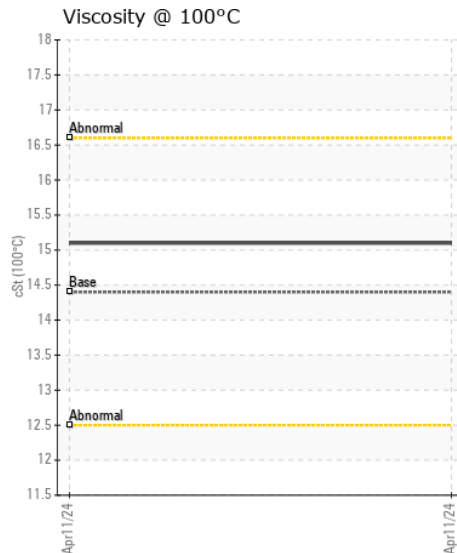
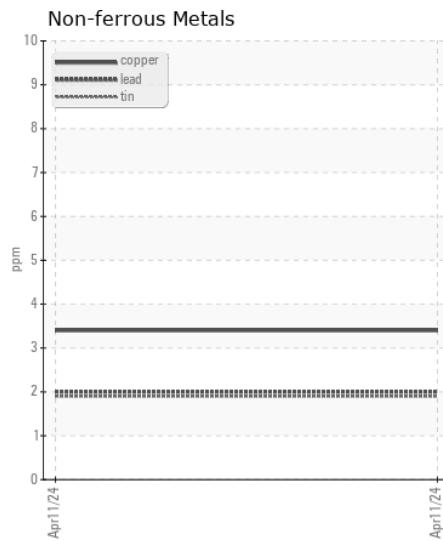
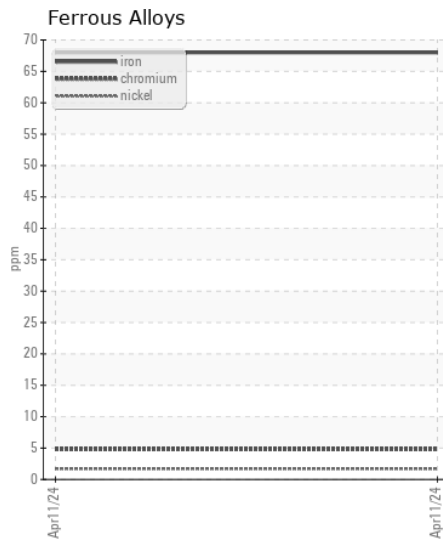
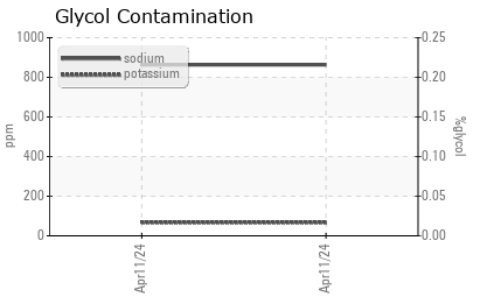
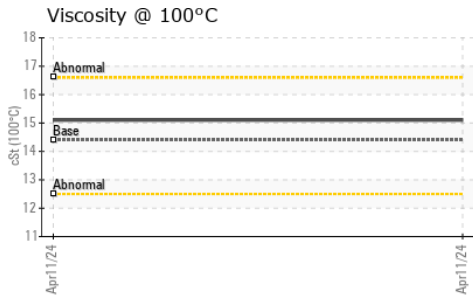
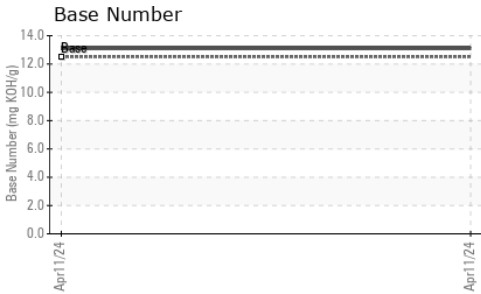
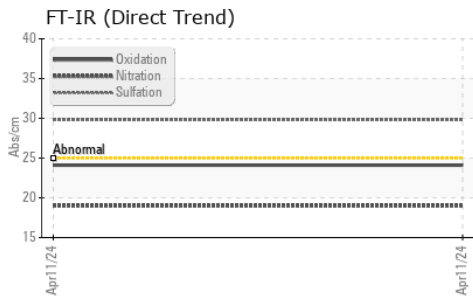
Sodium and/or potassium levels are high.

Silicon	ppm	ASTM D5185m	>25	13	---	---
Potassium	ppm	ASTM D5185m	>20	▲ 67	---	---
Fuel		WC Method	>5	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	*ASTM D2982		NEG	---	---
Soot %	%	*ASTM D7844	>3	2.4	---	---
Nitration	Abs/cm	*ASTM D7624	>20	19.0	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.8	---	---
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	NEG	---	---

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		▲ 863	---	---
Boron	ppm	ASTM D5185m	151	54	---	---
Barium	ppm	ASTM D5185m	0.4	1	---	---
Molybdenum	ppm	ASTM D5185m	250	280	---	---
Manganese	ppm	ASTM D5185m		2	---	---
Magnesium	ppm	ASTM D5185m	0	753	---	---
Calcium	ppm	ASTM D5185m	2046	2302	---	---
Phosphorus	ppm	ASTM D5185m	1043	1144	---	---
Zinc	ppm	ASTM D5185m	943	1271	---	---
Sulfur	ppm	ASTM D5185m	5012	4174	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.1	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	13.1	---	---
Visc @ 100°C	cSt	ASTM D445	14.4	15.1	---	---



Certificate L2367

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

**Sample No.** : WC0748602

**Lab Number** : 06152552

**Unique Number** : 10982630

**Test Package** : FLEET ( Additional Tests: Glycol )

**Received** : 17 Apr 2024

**Tested** : 23 Apr 2024

**Diagnosed** : 23 Apr 2024 - Jonathan Hester

**DOLE FRESH FRUIT COMPANY**

10TH AVENUE MARINE TERMINAL, 850 WATER STREET

SAN DIEGO, CA

US 92101

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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)