



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>MARGINAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**DFGS 061042**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0911232</b>	WC0313344	WCMFA38820
Sample Date		Client Info		<b>05 May 2024</b>	12 Feb 2019	19 Jun 2016
Machine Age	hrs	Client Info		<b>12892</b>	10989	10089
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>MARGINAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>17</b>	11	61
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	4
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	4	30
Lead	ppm	ASTM D5185m	>40	<b>0</b>	1	<1
Copper	ppm	ASTM D5185m	>330	<b>2</b>	1	2
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	9
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

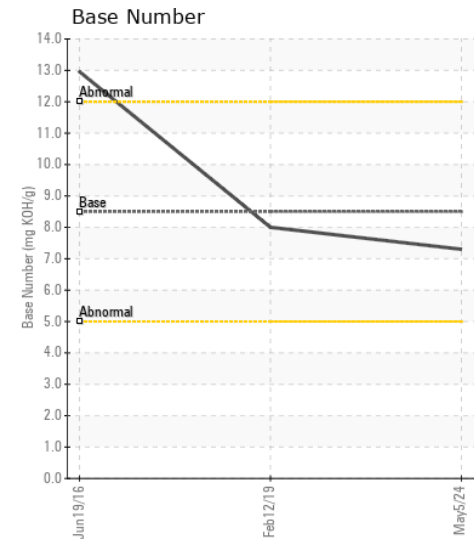
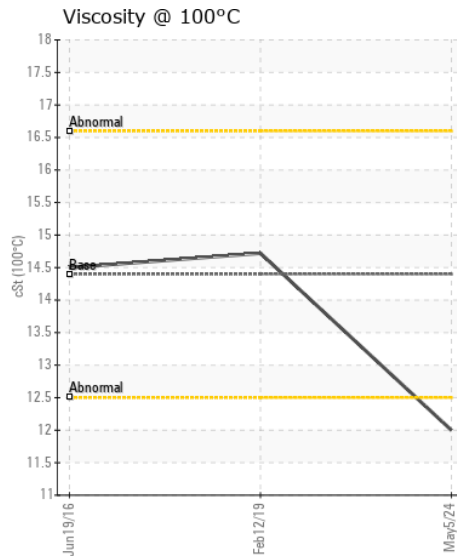
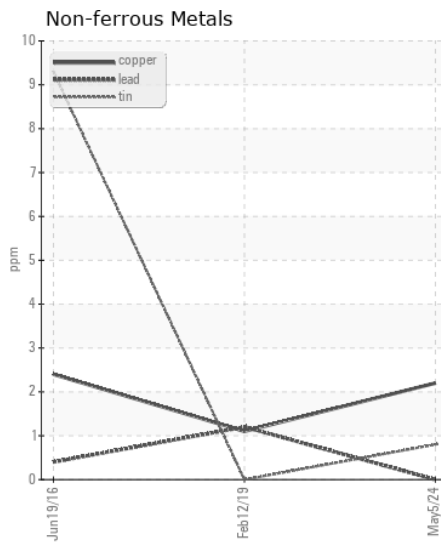
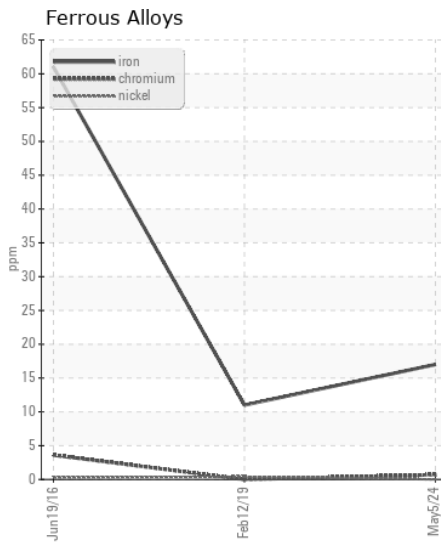
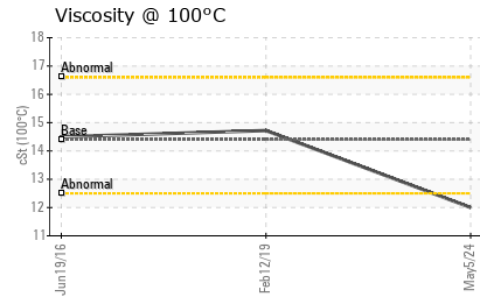
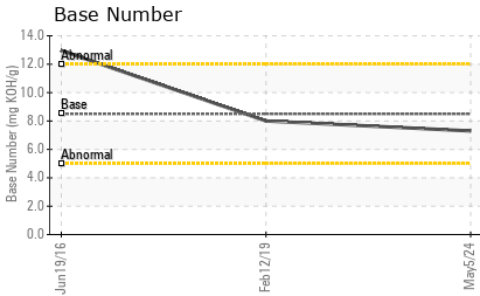
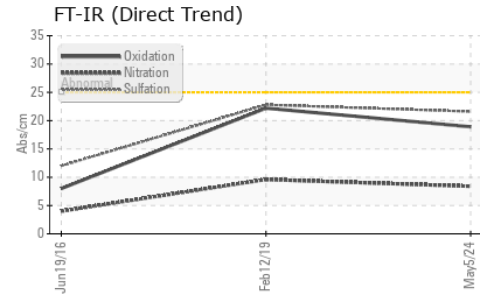
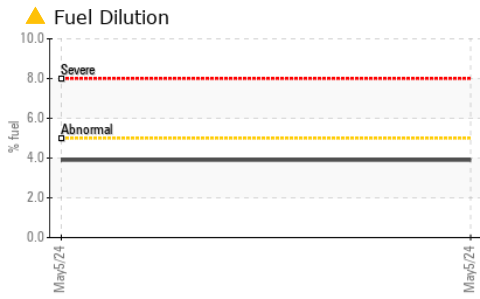
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	3	▲ 66
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	8
Fuel	%	ASTM D3524	>5	▲ <b>3.9</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.2	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.4</b>	9.6	4.
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.6</b>	22.8	12.
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## 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.

Sodium	ppm	ASTM D5185m	>158	<b>3</b>	3	● 150
Boron	ppm	ASTM D5185m	250	<b>360</b>	282	332
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	100	<b>85</b>	119	84
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m	450	<b>386</b>	583	391
Calcium	ppm	ASTM D5185m	3000	<b>1644</b>	1621	1463
Phosphorus	ppm	ASTM D5185m	1150	<b>1026</b>	689	972
Zinc	ppm	ASTM D5185m	1350	<b>1224</b>	930	1109
Sulfur	ppm	ASTM D5185m	4250	<b>3623</b>	2396	3000
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.9</b>	22.2	8.
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>7.3</b>	8	12.96
Visc @ 100°C	cSt	ASTM D445	14.4	<b>12.0</b>	14.72	14.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0911232 **Received** : 22 May 2024  
**Lab Number** : 06188423 **Tested** : 28 May 2024  
**Unique Number** : 11045175 **Diagnosed** : 28 May 2024 - Wes Davis  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**DOLE FRESH FRUIT**  
 PO BOX 725, ATTN: MAINTENANCE AND REPAIR  
 NEW CASTLE, DE  
 US 19720  
 Contact: LUIS LAPIERRE  
 luis.lapierre@dole.com  
 T: (302)652-6344  
 F: (302)652-6061

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)