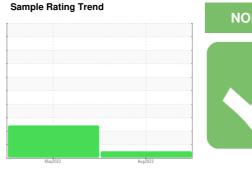


# **OIL ANALYSIS REPORT**

# FLEET/DILLON 2126928 (S/N N603202)

**Diesel Engine** 

NOT GIVEN (--- GAL)





# DIAGNOSIS

# Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

# Contamination

There is no indication of any contamination in the oil.

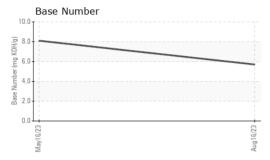
# **Fluid Condition**

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

			May2023	Aug2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0102777	PCA0093032	
Sample Date		Client Info		16 Aug 2023	16 May 2023	
Machine Age	mls	Client Info		0	0	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	28	35	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	13	<u>^</u> 27	
Lead	ppm	ASTM D5185m	>40	3	<1	
Copper	ppm	ASTM D5185m	>330	165	265	
Tin	ppm	ASTM D5185m	>15	3	5	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
7.00111120		motinoa	IIIIII base	Current	HISTOLYT	This tory 2
Boron	ppm	ASTM D5185m	mmbasc	5	216	
	ppm		mm base			
Boron		ASTM D5185m	min base	5	216	
Boron Barium	ppm	ASTM D5185m ASTM D5185m	mmbacc	5 0	216 0	
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		5 0 61	216 0 96	
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		5 0 61 2	216 0 96 5	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		5 0 61 2 844	216 0 96 5 640	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		5 0 61 2 844 1293	216 0 96 5 640 1587	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		5 0 61 2 844 1293 875	216 0 96 5 640 1587 724	   
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	5 0 61 2 844 1293 875 1152	216 0 96 5 640 1587 724 875	   
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		5 0 61 2 844 1293 875 1152 2769	216 0 96 5 640 1587 724 875 2930	
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	5 0 61 2 844 1293 875 1152 2769	216 0 96 5 640 1587 724 875 2930 history1	     history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base	5 0 61 2 844 1293 875 1152 2769 current	216 0 96 5 640 1587 724 875 2930 history1 ▲ 38	     history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >25 >20	5 0 61 2 844 1293 875 1152 2769 current 10 3	216 0 96 5 640 1587 724 875 2930 history1  38 4	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >25 >20	5 0 61 2 844 1293 875 1152 2769 current 10 3 338	216 0 96 5 640 1587 724 875 2930 history1  38 4 75	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >25 >20 >5	5 0 61 2 844 1293 875 1152 2769 current 10 3 38 <1.0	216 0 96 5 640 1587 724 875 2930 history1 ▲ 38 4 75 <1.0	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	ppm	ASTM D5185m	limit/base >25 >20 >5 limit/base >3	5 0 61 2 844 1293 875 1152 2769 current 10 3 38 <1.0	216 0 96 5 640 1587 724 875 2930 history1  38 4 75 <1.0	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm	ASTM D5185m ASTM D7844	limit/base >25 >20 >5 limit/base >3	5 0 61 2 844 1293 875 1152 2769 current 10 3 38 <1.0 current 0.4	216 0 96 5 640 1587 724 875 2930 history1   38 4 75 <1.0 history1 0.2	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7624	limit/base >25	5 0 61 2 844 1293 875 1152 2769 current 10 3 38 <1.0 current 0.4 10.3	216 0 96 5 640 1587 724 875 2930 history1  ▲ 38 4 75 <1.0 history1 0.2 9.6	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7624	limit/base >25 >20 >5 limit/base >3 >20 >3 limit/base	5 0 61 2 844 1293 875 1152 2769 current 10 3 38 <1.0 current 0.4 10.3 22.3	216 0 96 5 640 1587 724 875 2930 history1  ▲ 38 4 75 <1.0 history1 0.2 9.6 24.4	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE	ppm	ASTM D5185m ASTM D7624 *ASTM D7624 *ASTM D7415 method	limit/base >25 >20 >5 limit/base >3 >20 >3 limit/base	5 0 61 2 844 1293 875 1152 2769 current 10 3 38 <1.0 current 0.4 10.3 22.3 current	216 0 96 5 640 1587 724 875 2930 history1  ▲ 38 4 75 <1.0 history1 0.2 9.6 24.4 history1	history2 history2 history2 history2



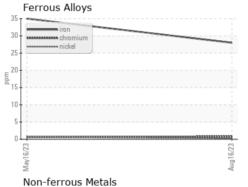
# **OIL ANALYSIS REPORT**



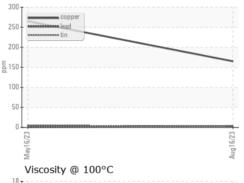
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

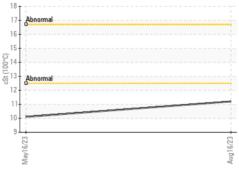
FLUID FROF	EULIES	method		HISTORY	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	11.2	10.1	

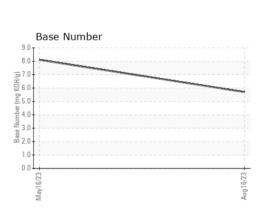
# Viscosity @ 100°C () 14 () 100 () 14



**GRAPHS** 









Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10607990

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0102777 : 05928043

Received Diagnosed

: 18 Aug 2023 : 21 Aug 2023

Diagnostician : Don Baldridge

**Test Package**: FLEET (Additional Tests: FuelDilution, PercentFuel) 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)

**PERDUE FARMS - DILLON** 

2047 HWY 9 WEST DILLON, SC US 29536 Contact: KEVIN HOOKS

kevin.hooks@perdue.com T: (843)841-8069

Submitted By: KEVIN HOOKS

F: (843)841-8070

Report Id: PERDILSC [WUSCAR] 05928043 (Generated: 08/22/2023 10:18:40) Rev: 1

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