

# **PROBLEM SUMMARY**

Sample Rating Trend

DIRT

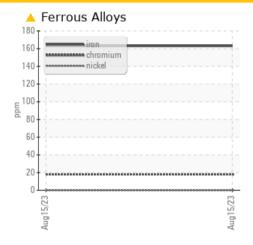


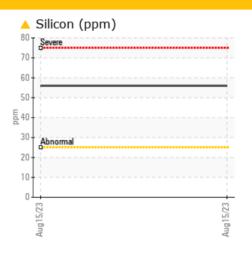
FL0308 Component

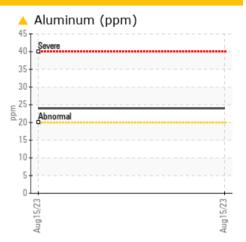
**Diesel Engine** 

NAPA 10W30 (--- GAL)

## **COMPONENT CONDITION SUMMARY**







## RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: Propane forklift )

## PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	 
Iron	ppm	ASTM D5185m	>100	<b>163</b>	 
Aluminum	ppm	ASTM D5185m	>20	<b>4</b> 24	 
Silicon	ppm	ASTM D5185m	>25	<b>^</b> 56	 

Customer Id: GFL411 **Sample No.:** GFL0085623 Lab Number: 05931395 Test Package: FLEET



To manage this report scan the QR code

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To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Change Fluid			?	Oil and filter change at the time of sampling has been noted.	
Change Filter			?	Oil and filter change at the time of sampling has been noted.	
Check Dirt Access			?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.	

## HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id FL0308 Component

**Diesel Engine** 

NAPA 10W30 (--- GAL)

## **DIAGNOSIS**

#### Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: Propane forklift)

## Wear

Cylinder, crank, or cam shaft wear is indicated.

#### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

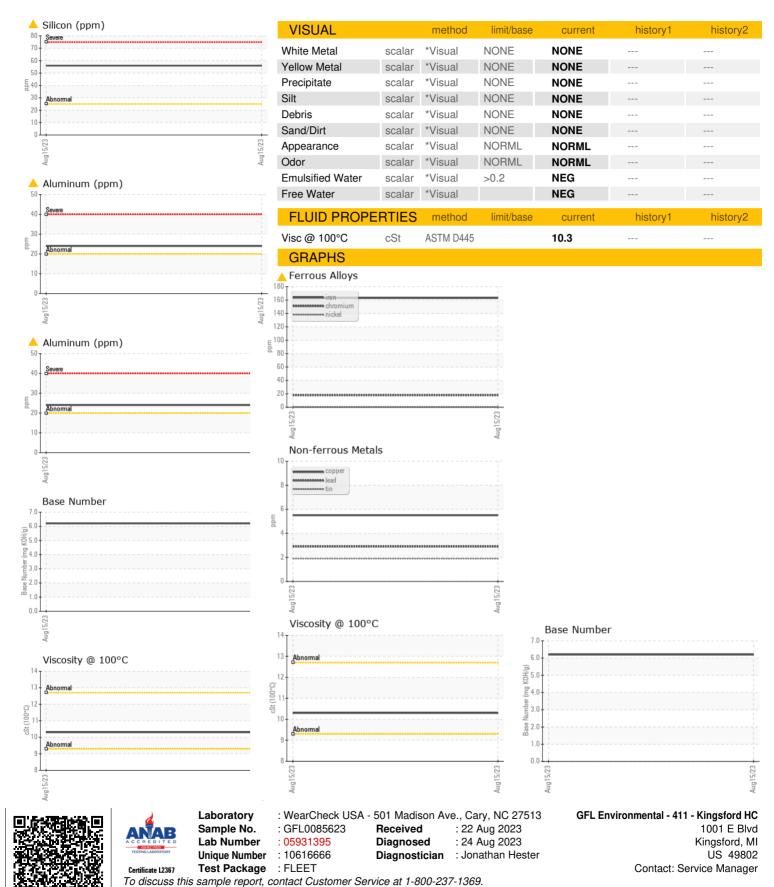
## **Fluid Condition**

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

				Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085623		
Sample Date		Client Info		15 Aug 2023		
Machine Age	hrs	Client Info		7223		
Oil Age	hrs	Client Info		36		
Oil Changed	0	Client Info		Changed		
Sample Status		CHOIL HIIO		ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METALS	3	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	<b>△</b> 163		
Chromium	ppm	ASTM D5185m	>20	18		
Vickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m	Z-T	4		
Silver		ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5165III	>20	<u>↓</u> 24		
				3		
_ead	ppm	ASTM D5185m	>40	ა 6		
Copper	ppm	ASTM D5185m				
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		187		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		357		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		619		
Calcium	ppm	ASTM D5185m		1391		
Phosphorus	ppm	ASTM D5185m		790		
Zinc	ppm	ASTM D5185m		924		
Sulfur	ppm	ASTM D5185m		4470		
CONTAMINAN	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>△</b> 56		
	ppiii			30		
Sodium	ppm	ASTM D5185m		10		
	• •		>20			
	ppm	ASTM D5185m	>20 limit/base	10		
Potassium  INFRA-RED	ppm	ASTM D5185m ASTM D5185m		10 4		
Potassium  INFRA-RED  Soot %	ppm ppm	ASTM D5185m ASTM D5185m method	limit/base	10 4 current	history1	
Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm	ASTM D5185m ASTM D5185m method *ASTM D7844	limit/base	10 4 current 0.1	history1	history2
Potassium INFRA-RED Soot % Nitration	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	limit/base >3 >20	10 4 current 0.1 6.5	history1	history2
Potassium  INFRA-RED  Soot %  Nitration  Sulfation	ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base	10 4 current 0.1 6.5 16.4	 history1  	history2



## **OIL ANALYSIS REPORT**



\* - 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)

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