

# **PROBLEM SUMMARY**

Sample Rating Trend

**FUEL** 

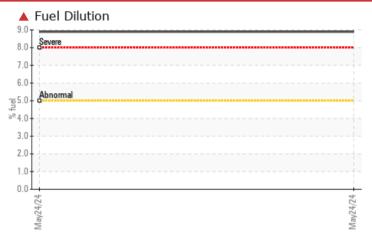
Machine Id

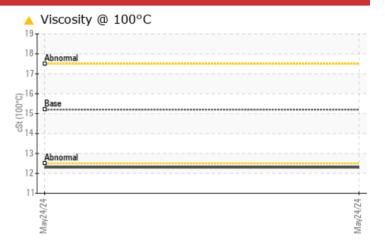
# KENWORTH 426141-SW4617

Diesel Engine

MOBIL DELVAC ELITE 15W40 (--- GAL)

## **COMPONENT CONDITION SUMMARY**





## RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMAT	IC TES	T RESULT	S		
Sample Status				SEVERE	 
Fuel	%	ASTM D3524	>5	<b>8.9</b>	 
Vice @ 100°C	o\$t	VCTM D44E	15.2	A 10 2	

Customer Id: GFL981 Sample No.: GFL0111322 Lab Number: 06231231 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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

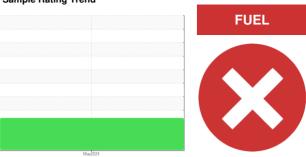
RECOMMENDE	RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description		
Resample			?	We recommend an early resample to monitor this condition.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		

# HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# KENWORTH 426141-SW4617

**Diesel Engine** 

**MOBIL DELVAC ELITE 15W40 (--- GAL)** 

## **DIAGNOSIS**

### Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Metal levels are typical for a components first oil change.

### ▲ Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

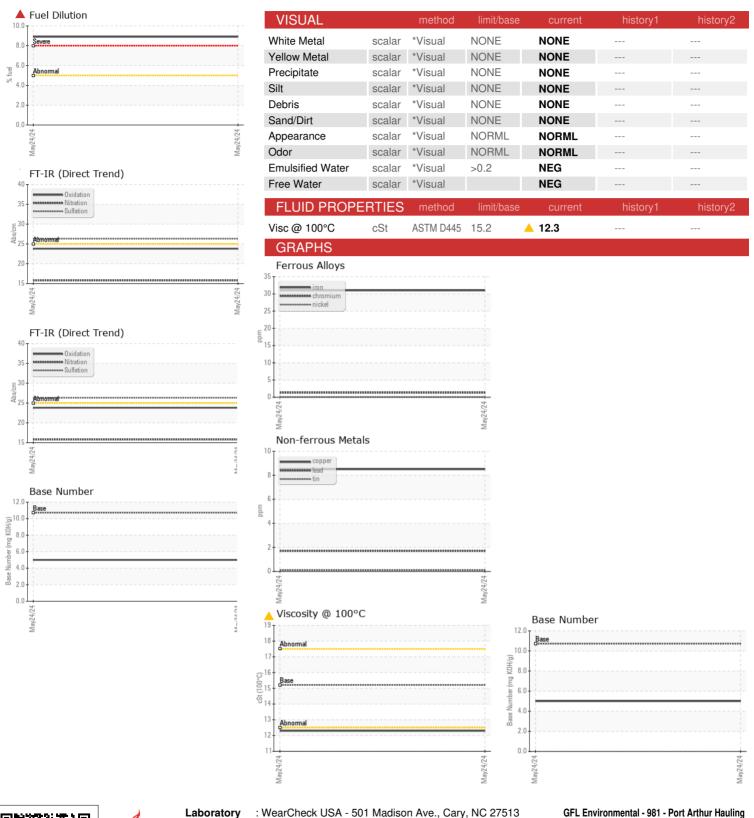
## Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

			1	May2024		
CAMPLE INCOD	MATION	un atta a d	li-nai+/la-nan		la: a t a m . d	history O
SAMPLE INFOR	WATION		limit/base	current	history1	history2
Sample Number		Client Info		GFL0111322		
Sample Date		Client Info		24 May 2024		
Machine Age	hrs	Client Info		16568		
Oil Age	hrs	Client Info		16568		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	31		
Chromium	ppm	ASTM D5185m	>20	1		
Vickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m	7	0		
Silver		ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	10		
Lead		ASTM D5185m	>40	2		
	ppm					
Copper	ppm	ASTM D5185m		8		
Γin , "	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		29		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		118		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		625		
Calcium	ppm	ASTM D5185m				
Phosphorus		AOTIVI DOTOSIII		1282		
rnosphorus	ppm	ASTM D5105m		1282 764		
	ppm			_		
Zinc		ASTM D5185m		764		
Zinc	ppm	ASTM D5185m ASTM D5185m	limit/base	764 841		
Zinc Sulfur CONTAMINAN	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method		764 841 3708 current		
Zinc Sulfur CONTAMINAN Silicon	ppm ppm ITS ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base >25	764 841 3708 current	history1	   history2
Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ITS ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>25	764 841 3708 current 7 9	  history1	  history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ITS ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m		764 841 3708 current	  history1	   history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel	ppm ppm ITS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	>25 >20 >5	764 841 3708  current 7 9 17  8.9	  history1 	  history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ITS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method	>25 >20 >5 limit/base	764 841 3708  current 7 9 17  8.9  current	history1	history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm lTS ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	>25 >20 >5 limit/base >3	764 841 3708  current 7 9 17 ▲ 8.9  current 1	history1 history1 history1	history2 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm JTS ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m  method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524  method *ASTM D7844 *ASTM D7624	>25 >20 >5 limit/base >3 >20	764 841 3708  current  7 9 17 ▲ 8.9  current  1 15.8	history1 history1 history1	history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm JTS ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D76145	>25 >20 >5 limit/base >3	764 841 3708  current 7 9 17 ▲ 8.9  current 1	history1 history1 history1	history2 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm JTS ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D76145	>25 >20 >5 limit/base >3 >20	764 841 3708  current  7 9 17 ▲ 8.9  current  1 15.8	history1 history1 history1	history2 history2 history2
Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm JTS ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D76145	>25 >20 >5 limit/base >3 >20 >3	764 841 3708  current 7 9 17  ▲ 8.9  current 1 15.8 26.3	history1 history1 history1	history2 history2 history2



## **OIL ANALYSIS REPORT**







Certificate 12367

Sample No.

Lab Number : 06231231

: GFL0111322 Unique Number : 11114724

Received **Tested** 

: 11 Jul 2024 Diagnosed : 11 Jul 2024 - Wes Davis Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 09 Jul 2024

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

GFL Environmental - 981 - Port Arthur Hauling

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Submitted By: MICHAEL KAY