

## **PROBLEM SUMMARY**

## Sample Rating Trend

### **FUEL**

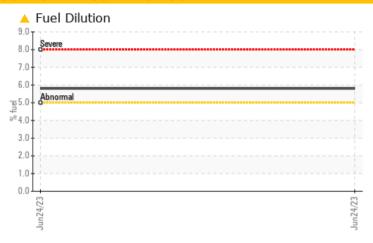


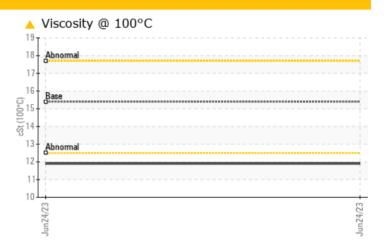
## FREIGHTLINER 103

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (13 LTR)

### **COMPONENT CONDITION SUMMARY**





### RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	 
Fuel	%	ASTM D3524	>5	<b>△</b> 5.8	 
Visc @ 100°C	cSt	ASTM D445	15.4	<b>11.9</b>	 

**Customer Id: ATRPIN** Sample No.: PCA0100641 Lab Number: 05885398 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

RECOMMENDED	ACTIONS			
Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

# Sample Rating Trend

FUEL



## FREIGHTLINER 103

Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (13 LTR)

### DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

### Contamination

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

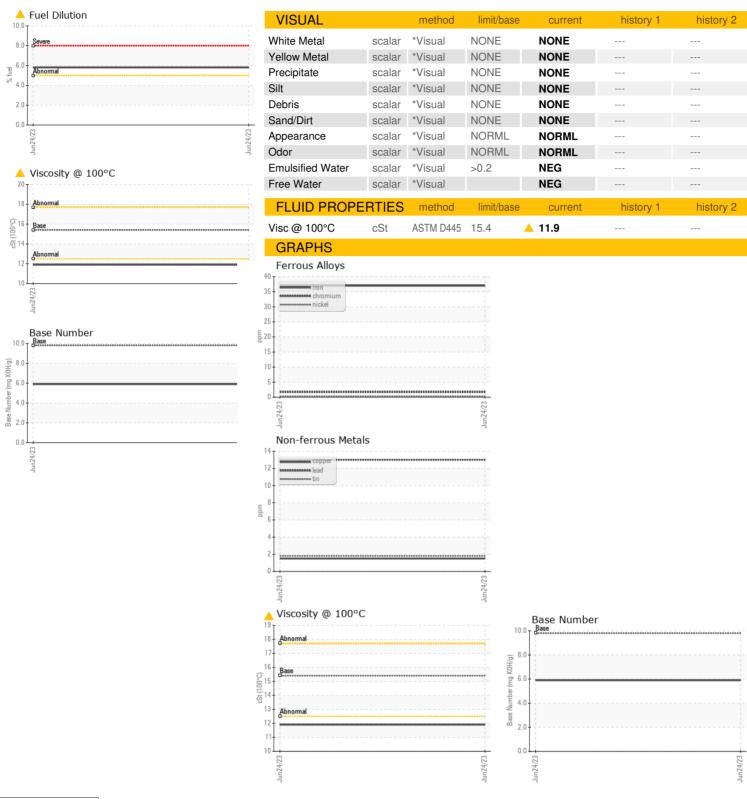
### Fluid Condition

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.

LTR)						
OAMBLE INCOR	MATION			Jun2023		
SAMPLE INFOR	MATION		limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0100641		
Sample Date		Client Info		24 Jun 2023		
Machine Age	mls	Client Info		348557		
Oil Age	mls	Client Info		25000		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>80	37		
Chromium	ppm	ASTM D5185m	>5	2		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	0		
Lead	ppm	ASTM D5185m	>30	13		
Copper	ppm	ASTM D5185m	>150	2		
Tin	ppm	ASTM D5185m	>5	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	<1		
Barium	ppm	ASTM D5185m	0	<1		
Molybdenum	ppm	ASTM D5185m	60	58		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	913		
Calcium	ppm	ASTM D5185m	1070	1035		
Phosphorus	ppm	ASTM D5185m	1150	909		
Zinc	ppm	ASTM D5185m	1270	1137		
Sulfur	ppm	ASTM D5185m	2060	3138		
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>20	4		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	3		
Fuel	%	ASTM D3524	>5	<b>5.8</b>		
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	2.6		
Nitration	Abs/cm	*ASTM D7624	>20	10.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.3		
FLUID DEGRAI	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.0		
		ASTM D2896	9.8	5.9		
Base Number (BN)	mg KOH/g	A3 1 W D2090	5.0	J.9		



## **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number

**Unique Number** 

: PCA0100641 : 05885398 : 10535881

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

Received : 28 Jun 2023 Diagnosed : 30 Jun 2023

Diagnostician : Wes Davis **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) A Truck Repair

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