

Component

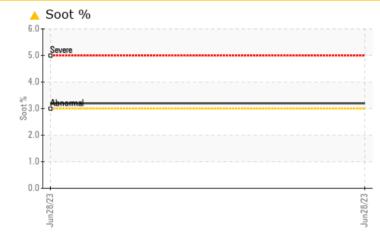
# **PROBLEM SUMMARY**

# Sample Rating Trend SOOT

Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (13 LTR)

#### COMPONENT CONDITION SUMMARY

FREIGHTLINER 105



#### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL				
Soot %	%	*ASTM D7844	>3	<b>A</b> 3.2				

Customer Id: ATRPIN Sample No.: PCA0100691 Lab Number: 05889883 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	COMMENDED 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.		

### HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

Sample Rating Trend

SOOT

# **FREIGHTLINER 105**

Component **Diesel Engine** 

Machine Id

Fluid PETRO CANADA DURON SHP 15W40 (13 LTR)

#### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is an abnormal amount of solids and carbon present in the oil.

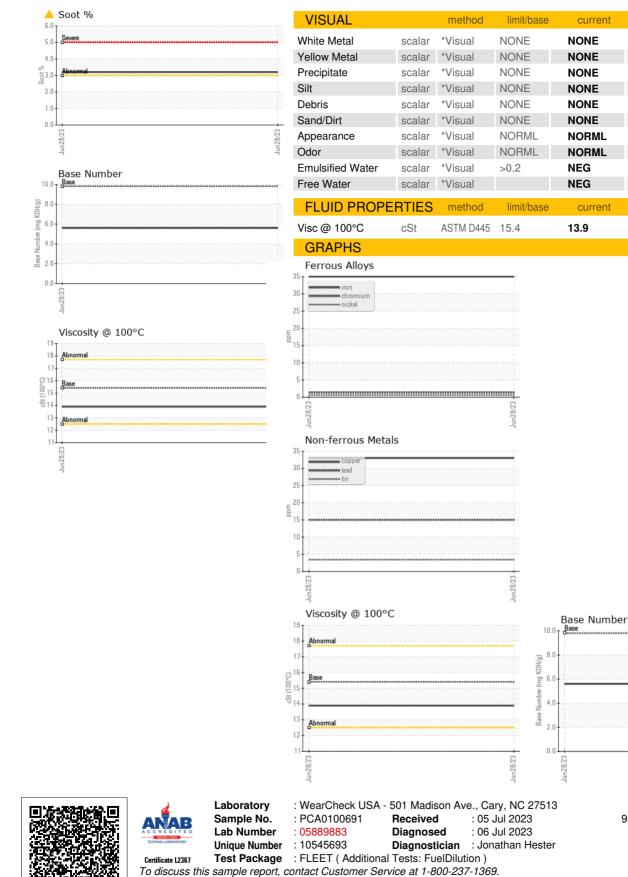
#### Fluid Condition

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

.TR)				Jun2023		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0100691		
Sample Date		Client Info		28 Jun 2023		
Machine Age	mls	Client Info		382858		
Oil Age	mls	Client Info		31829		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history 1	history 2
Glycol		WC Method		NEG		
WEAR METALS	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>80	35		
Chromium	ppm	ASTM D5185m	>5	1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	<1		
Lead	ppm	ASTM D5185m	>30	15		
Copper	ppm	ASTM D5185m	>150	33		
Tin	ppm	ASTM D5185m	>5	3		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	7		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	54		
Manganese	ppm		0	<1		
Magnesium	ppm	ASTM D5185m	1010	613		
Calcium	ppm	ASTM D5185m ASTM D5185m	1070 1150	1261		
Phosphorus Zinc	ppm	ASTM D5185m	1270	895 1098		
Sulfur	ppm ppm	ASTM D5185m	2060	2469		
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon		ASTM D5185m	>20	4		
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>20	4 <1		
	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>20 >20	4 <1 1		
Sodium	ppm	ASTM D5185m		<1		
Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m	>20	<1 1		
Sodium Potassium Fuel	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D3524	>20 >5	<1 1 <1.0		
Sodium Potassium Fuel INFRA-RED	ppm ppm %	ASTM D5185m ASTM D5185m ASTM D3524 method	>20 >5 limit/base	<1 1 <1.0 current	  history 1	  history 2
Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm %	ASTM D5185m ASTM D5185m ASTM D3524 <b>method</b> *ASTM D7844	>20 >5 limit/base >3	<1 1 <1.0 current 3.2	  history 1 	 history 2
Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >5 limit/base >3 >20	<1 1 <1.0 current 3.2 10.4	  history 1 	 history 2
Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >5 limit/base >3 >20 >30	<1 1 <1.0 current 3.2 10.4 26.9	 history 1  	 history 2  



# **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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history 1

history

history 2

history 2

A Truck Repair

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