

### **PROBLEM SUMMARY**

Sample Rating Trend

**DEGRADATION** 

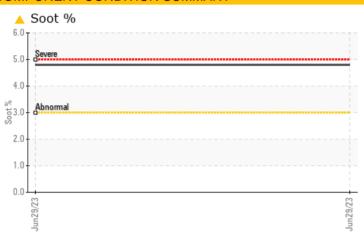


# FREIGHTLINER 79

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (13 LTR)

### **COMPONENT CONDITION SUMMARY**



#### RECOMMENDATION

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.

### PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	 
Soot %	%	*ASTM D7844	>3	<b>4.8</b>	 
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>△</b> 0.0	 

**Customer Id: ATRPIN** Sample No.: PCA0100682 Lab Number: 05889870 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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.			
Alert			?	NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.			
Check Combustion			?	We advise that you check for faulty combustion, plugged air filters, or aftercoolers.			

### HISTORICAL DIAGNOSIS



### **OIL ANALYSIS REPORT**

## Sample Rating Trend

### **DEGRADATION**



## FREIGHTLINER 79

Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (13 LTR)

#### DIAGNOSIS

#### Recommendation

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.

#### Wear

All component wear rates are normal.

### Contamination

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

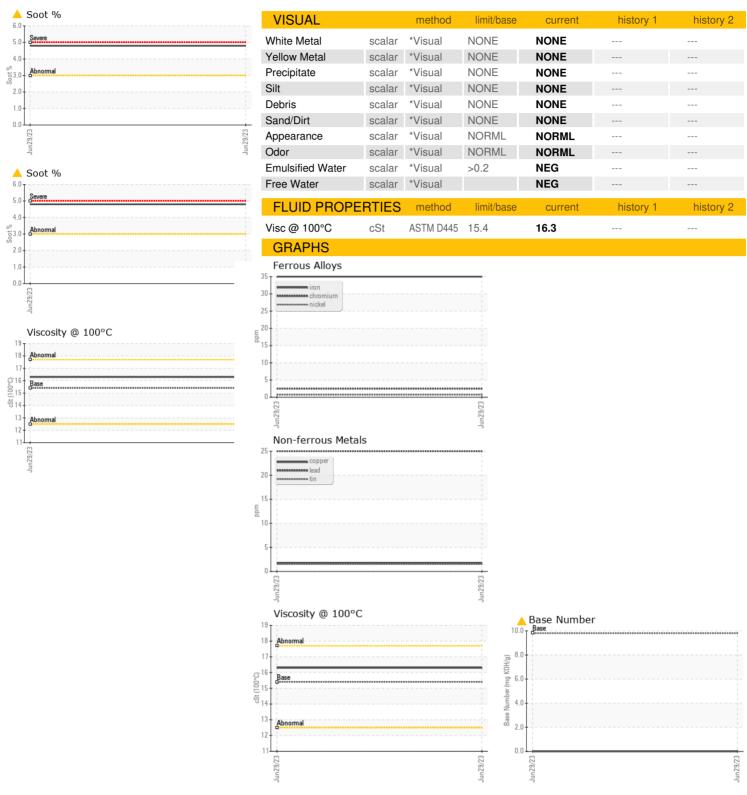
#### Fluid Condition

The BN level is low.

LTR)				Jun 2023		<u> </u>
SAMPLE INFORI	MATION	method	limit/base	current	history 1	history 2
	VIATION		IIIIIIIIIIIII		,	Thistory 2
Sample Number		Client Info		PCA0100682		
Sample Date	la	Client Info		29 Jun 2023		
Machine Age Oil Age	mls mls	Client Info		422347 29158		
Oil Changed	11115	Client Info		Changed		
Sample Status		Chefit iiilo		ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
	IOIN					mstory 2
Fuel		WC Method	>5	<1.0 NEG		
Glycol				NEG		
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>80	35		
Chromium	ppm	ASTM D5185m	>5	2		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	12		
Lead	ppm	ASTM D5185m	>30	25		
Copper	ppm	ASTM D5185m	>150	2		
Tin	ppm	ASTM D5185m	>5	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	57		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	831		
Calcium	ppm	ASTM D5185m	1070	1025		
Phosphorus	ppm	ASTM D5185m	1150	885		
Zinc	ppm	ASTM D5185m	1270	1081		
Sulfur	ppm	ASTM D5185m	2060	2688		
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>20	4		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	26		
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	<b>4.8</b>		
Nitration	Abs/cm	*ASTM D7624	>20	13.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	33.5		
FLUID DEGRAD	OATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.3		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>△</b> 0.0		



### **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number Unique Number

: 05889870

: PCA0100682 : 10545680 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Jul 2023 Diagnosed : 06 Jul 2023 Diagnostician

: Don Baldridge

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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