

PROBLEM SUMMARY

Sample Rating Trend

SOOT

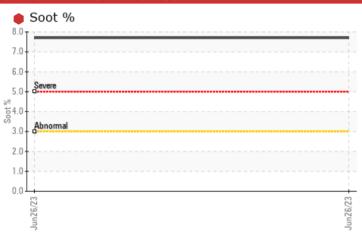


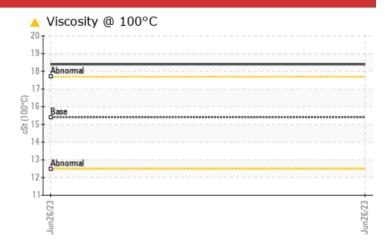
FREIGHTLINER 89

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. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE					
Soot %	%	*ASTM D7844	>3	7.7					
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	△ 0.0					
Visc @ 100°C	cSt	ASTM D445	15.4	△ 18.4					

Customer Id: ATRPIN Sample No.: PCA0100623 Lab Number: 05889877 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		
Resample			?	We recommend an early resample to monitor this condition.		
Check Combustion			?	We advise that you check for faulty combustion, plugged air filters, or aftercoolers.		

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

SOOT



FREIGHTLINER 89

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. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

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

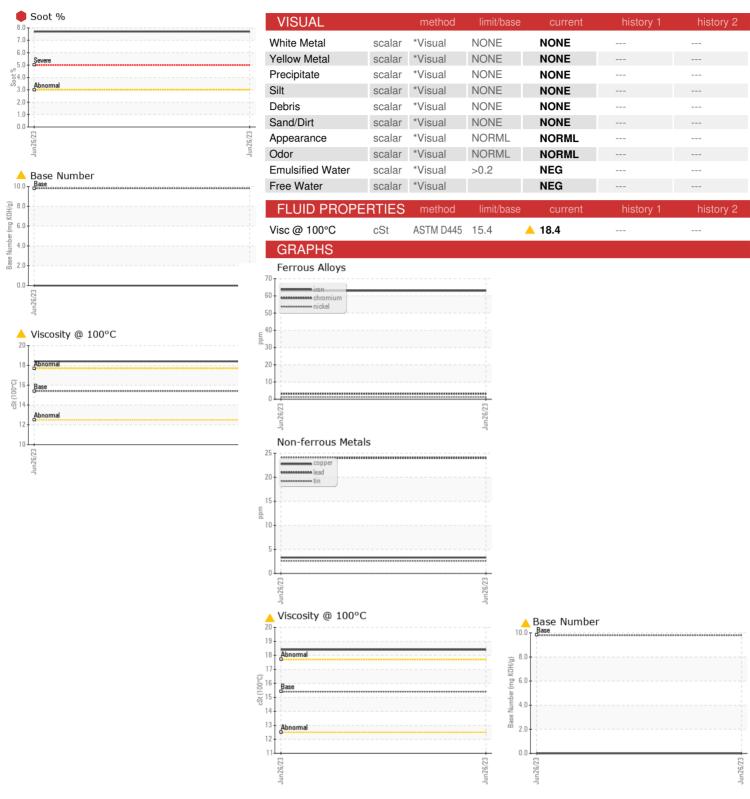
▲ Fluid Condition

The oil viscosity is higher than normal. The BN level is low.

TR)				Jun 2 023		
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0100623		
Sample Date		Client Info		26 Jun 2023		
Machine Age	mls	Client Info		407220		
Oil Age	mls	Client Info		28157		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	.S	method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185m	>80	63		
Chromium	ppm	ASTM D5185m	>5	3		
Nickel	ppm	ASTM D5185m	>2	1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	1		
ead	ppm	ASTM D5185m	>30	24		
Copper	ppm	ASTM D5185m	>150	3		
- in	ppm	ASTM D5185m	>5	3		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	5		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	52		
Manganese	ppm	ASTM D5185m	0	<1		
//agnesium	ppm	ASTM D5185m	1010	759		
Calcium	ppm	ASTM D5185m	1070	1122		
Phosphorus	ppm	ASTM D5185m	1150	898		
Zinc	ppm	ASTM D5185m	1270	1080		
Sulfur	ppm	ASTM D5185m	2060	2611		
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>20	6		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	2		
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	7.7		
Nitration	Abs/cm	*ASTM D7624	>20	49.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	74.4		
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Ovidation	Abs/.1mm	*ASTM D7414	>25	118.5		
Oxidation	U09/-1111111	AOTIVI DI TIT	/20	110.5		



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: PCA0100623 : 05889877 : 10545687 Test Package : FLEET

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

: Don Baldridge Diagnostician

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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