

PROBLEM SUMMARY

Sample Rating Trend SOOT

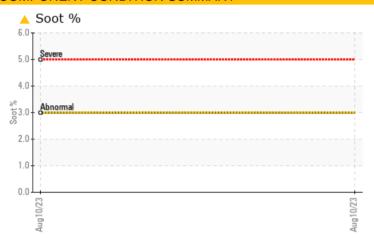
FREIGHTLINER 66

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.

PROBLEMATIC TEST RESULTS Sample Status ABNORMAL -- -- Soot % *ASTM D7844 >3 3 -- --

Customer Id: ATRPIN
Sample No.: PCA0102565
Lab Number: 05924125
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.				
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 66

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.

Wear

All component wear rates are normal.

Contamination

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

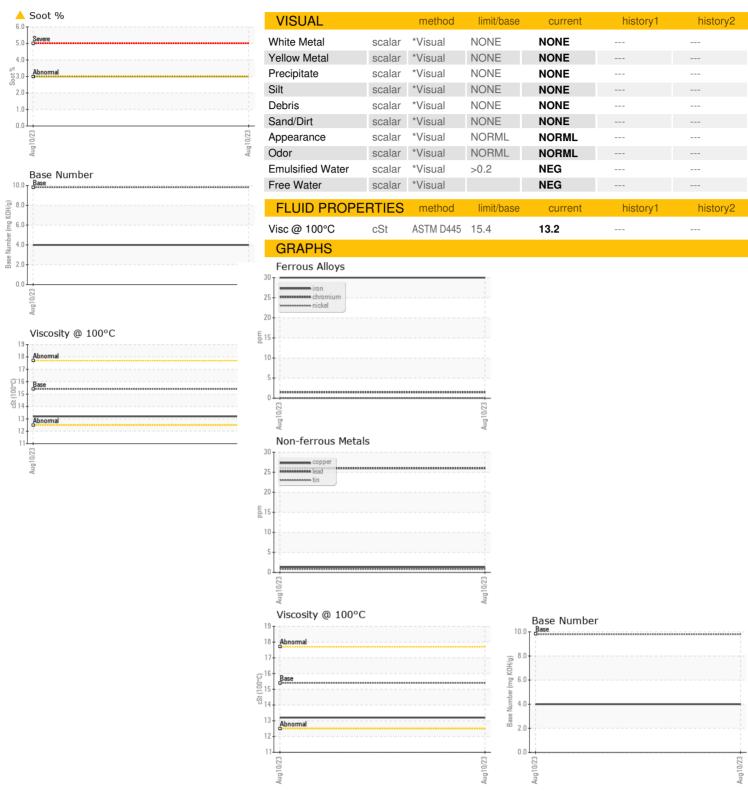
Fluid Condition

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

LTR)						
				Aug2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0102565		
Sample Date		Client Info		10 Aug 2023		
Machine Age	mls	Client Info		292602		
Oil Age	mls	Client Info		23645		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	TION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	30		
Chromium	ppm	ASTM D5185m	>5	2		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	2		
Lead	ppm	ASTM D5185m	>30	26		
Copper	ppm	ASTM D5185m	>150	1		
Tin	ppm	ASTM D5185m	>5	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	58		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	890		
Calcium	ppm	ASTM D5185m	1070	1088		
Phosphorus	ppm	ASTM D5185m	1150	902		
Zinc	ppm	ASTM D5185m	1270	1149		
Sulfur	ppm	ASTM D5185m	2060	3345		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	5		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	3		
Fuel	%	ASTM D3524	>5	<1.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	▲ 3		
Nitration	Abs/cm	*ASTM D7624		11.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.4		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.5		
Base Number (BN)	mg KOH/g	ASTM D2896		4.0		
	IIIU NUH/U	70 I M D 2030	3.0	4.0		



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0102565 : 05924125

: 10604072

Received : 14 Aug 2023 Diagnosed : 15 Aug 2023 Diagnostician : Don Baldridge

Test Package : FLEET (Additional Tests: FuelDilution) 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.

A Truck Repair

9349 China Grove Church Road Pineville, NC US 28134

Contact: Vlad Melnichuk shop@migway.com T: (980)255-3200

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)