

PROBLEM SUMMARY

Sample Rating Trend DEGRADATION

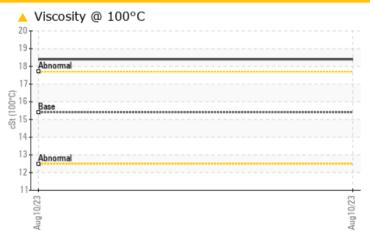
DEGRADATION

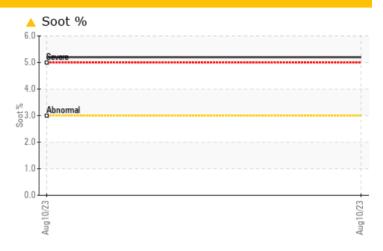
FREIGHTLINER 91

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. We recommend an early resample to monitor this condition. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.

Customer Id: ATRPIN Sample No.: PCA0102566 Lab Number: 05924122 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.		
Resample			?	We recommend an early resample to monitor this condition.		
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

Lead

Copper

Silicon

Sample Rating Trend

DEGRADATION



FREIGHTLINER 91

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. We recommend an early resample to monitor this condition. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value.

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

LTR)				Aug ² 023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	his
Sample Number		Client Info		PCA0102566		
Sample Date		Client Info		10 Aug 2023		
Machine Age	mls	Client Info		372465		
Oil Age	mls	Client Info		26734		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATI	ON	method	limit/base	current	history1	his
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METALS	S	method	limit/base	current	history1	his
Iron	ppm	ASTM D5185m	>80	34		
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	<1		

Ооррсі	ppiii	AO I WI DO TOOTII	/100	•		
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	54		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	863		
Calcium	ppm	ASTM D5185m	1070	1032		
Phosphorus	ppm	ASTM D5185m	1150	881		
Zinc	ppm	ASTM D5185m	1270	1095		
Sulfur	ppm	ASTM D5185m	2060	3209		
CONTAMINAN	TS	method	limit/hase	current	history1	history2

8

ASTM D5185m >30

ASTM D5185m >20

ppm ASTM D5185m >150

mqq

ppm

Base Number (BN) mg KOH/g ASTM D2896 9.8

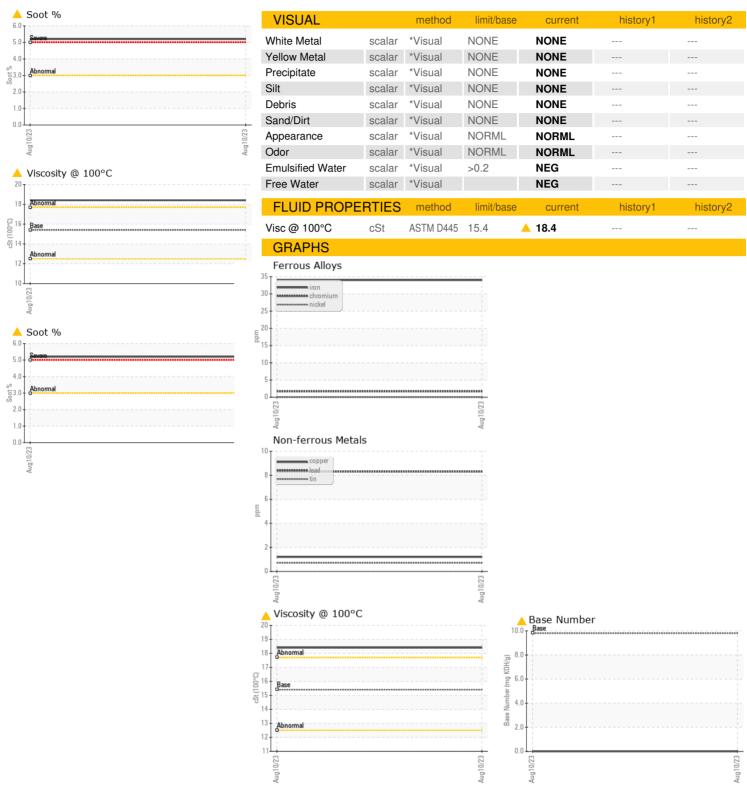
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	△ 5.2		
Nitration	Abs/cm	*ASTM D7624	>20	12.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.2		
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.6		

5

△ 0.0



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number Unique Number Test Package : FLEET

: PCA0102566 : 05924122 : 10604069

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

Received Diagnosed

: 14 Aug 2023

: 15 Aug 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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