

PROBLEM SUMMARY

Sample Rating Trend

SOOT

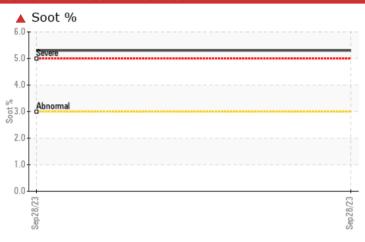
Machine Id

FREIGHTLINER 22

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.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE				
Soot %	%	*ASTM D7844	>3	▲ 5.3				
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	A 0.0				

Customer Id: ATRPIN Sample No.: PCA0102595 Lab Number: 06188610 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

Sample Rating Trend

Machine Id

FREIGHTLINER 22

Diesel Engine

PETRO CANADA DURON SHP 15W40 (13 L

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.

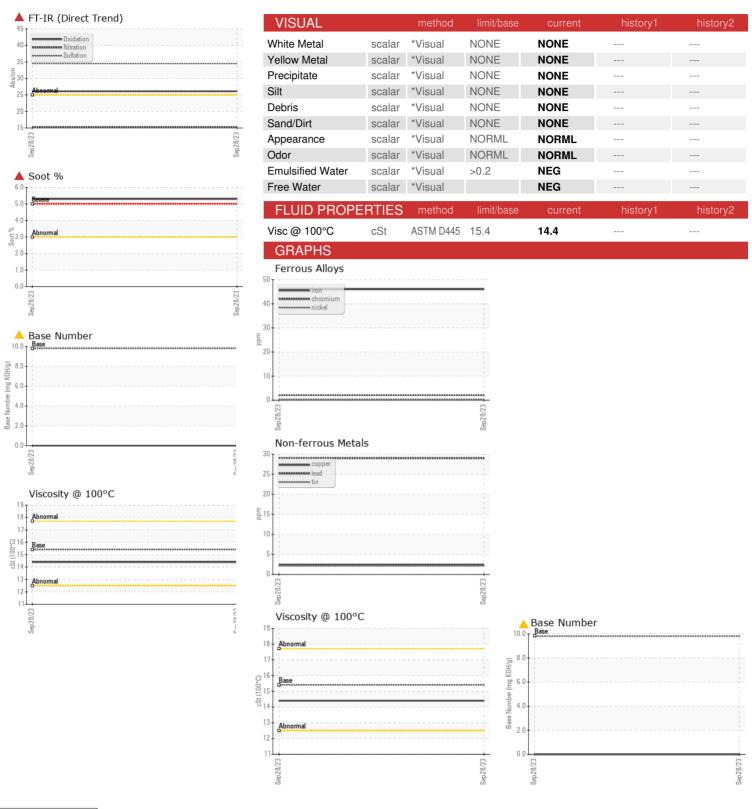
Fluid Condition

The BN level is low. The oil is no longer serviceable due to the presence of contaminants.

_TR)		L		Sep2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	W// TTOT		mmobacc	PCA0102595		Ť
Sample Number		Client Info				
Sample Date	la	Client Info		28 Sep 2023		
Machine Age	mls	Client Info		438650		
Oil Obarrad	mls	Client Info		26478		
Oil Changed		Client Info		Changed		
Sample Status				SEVERE		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	46		
Chromium	ppm	ASTM D5185m	>5	2		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>30	1		
Lead	ppm	ASTM D5185m	>30	29		
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	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	53		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	814		
Calcium	ppm	ASTM D5185m	1070	1030		
Phosphorus	ppm	ASTM D5185m	1150	820		
Zinc	ppm	ASTM D5185m	1270	1099		
Sulfur	ppm	ASTM D5185m	2060	2825		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	6		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	4		
Fuel	%	ASTM D3524	>5	<1.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	▲ 5.3		
Nitration	Abs/cm	*ASTM D7624	>20	15.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	34.5		
FLUID DEGRA	<u>NOI</u> TAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.1		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	△ 0.0		
Dage (DIV)	mg Northy	, 10 I M D2000	3.0	0.0		



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

: PCA0102595 **Lab Number** : 06188610 Unique Number : 11045362

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

: 23 May 2024 : 24 May 2024

Diagnosed : 28 May 2024 - Don Baldridge Test Package : FLEET (Additional Tests: FuelDilution)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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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A Truck Repair

Pineville, NC