

# **PROBLEM SUMMARY**

# Sample Rating Trend SOOT

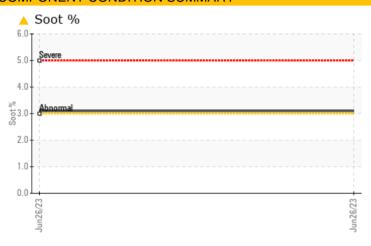
# FREIGHTLINER 36

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (13 LTR)

# **COMPONENT CONDITION SUMMARY**



## RECOMMENDATION

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 A 3.1 -- --

Customer Id: ATRPIN
Sample No.: PCA0100622
Lab Number: 05889876
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
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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.				

# HISTORICAL DIAGNOSIS



# **OIL ANALYSIS REPORT**

Sample Rating Trend

SOOT



# FREIGHTLINER 36

Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (13 LTR)

# **DIAGNOSIS**

## Recommendation

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.

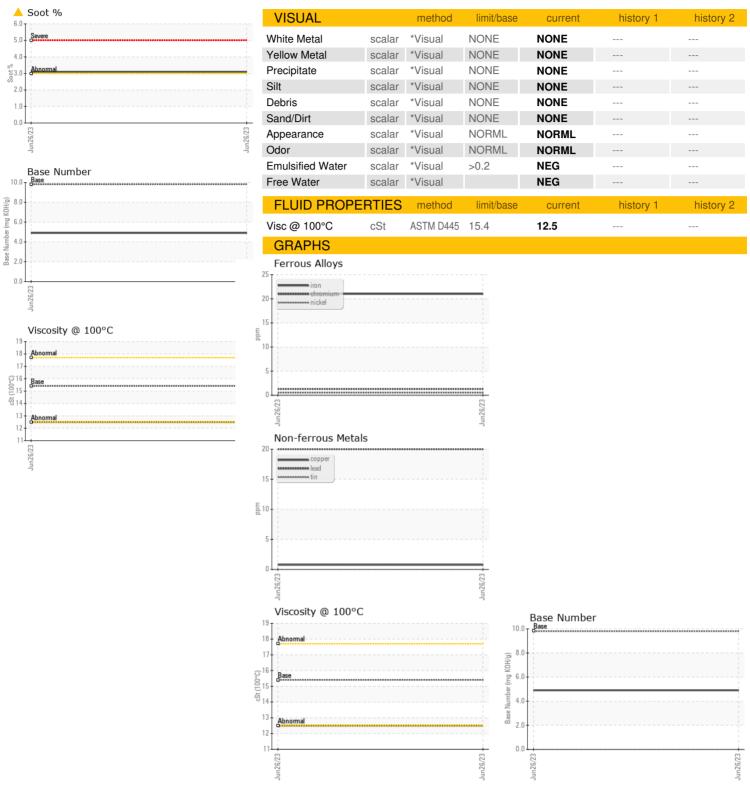
### **Fluid Condition**

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

LTR)						
,				Jun 2023		
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0100622		
Sample Date		Client Info		26 Jun 2023		
Machine Age	mls	Client Info		57117		
Oil Age	mls	Client Info		28830		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>80	21		
Chromium	ppm	ASTM D5185m	>5	1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	1		
Lead	ppm	ASTM D5185m	>30	20		
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	history 1	history 2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	56		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	805		
Calcium	ppm	ASTM D5185m	1070	1110		
Phosphorus	ppm	ASTM D5185m	1150	850		
Zinc	ppm	ASTM D5185m	1270	1098		
Sulfur	ppm	ASTM D5185m	2060	2817		
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>20	4		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	3		
Fuel	%	ASTM D3524	>5	<1.0		
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	<b>△</b> 3.1		
Nitration	Abs/cm	*ASTM D7624		11.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.2		
FLUID DEGRAI						
I LUID DEGITAL	DATION	method	limit/base	current	history 1	history 2
						,
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	limit/base >25 9.8	21.5 4.9	history 1	history 2



# **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number

**Unique Number** 

: PCA0100622 : 05889876 : 10545686

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

Diagnosed

: 05 Jul 2023 : 06 Jul 2023 Diagnostician : Jonathan Hester

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

A Truck Repair

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