

## **PROBLEM SUMMARY**

# Sample Rating Trend **WEAR**

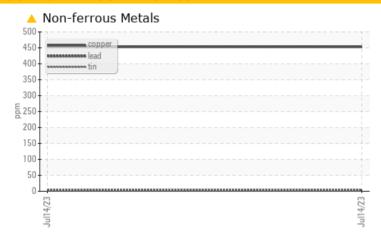
## FREIGHTLINER 235

Component **Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (--- GAL)



## **COMPONENT CONDITION SUMMARY**



## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATION	TES1	RESULT	S		
Sample Status				ABNORMAL	 
Copper	ppm	ASTM D5185m	>150	<b>453</b>	 

**Customer Id: ATRPIN** Sample No.: PCA0100632 Lab Number: 05902077 Test Package: FLEET To manage this report scan the QR code To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMEND	ED ACTIONS	CTIONS				
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

WEAR



## FREIGHTLINER 235

Component

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (--- GAL)

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## Wear

The copper level is abnormal. All other component wear rates are normal.

#### Contamination

There is no indication of any contamination in the

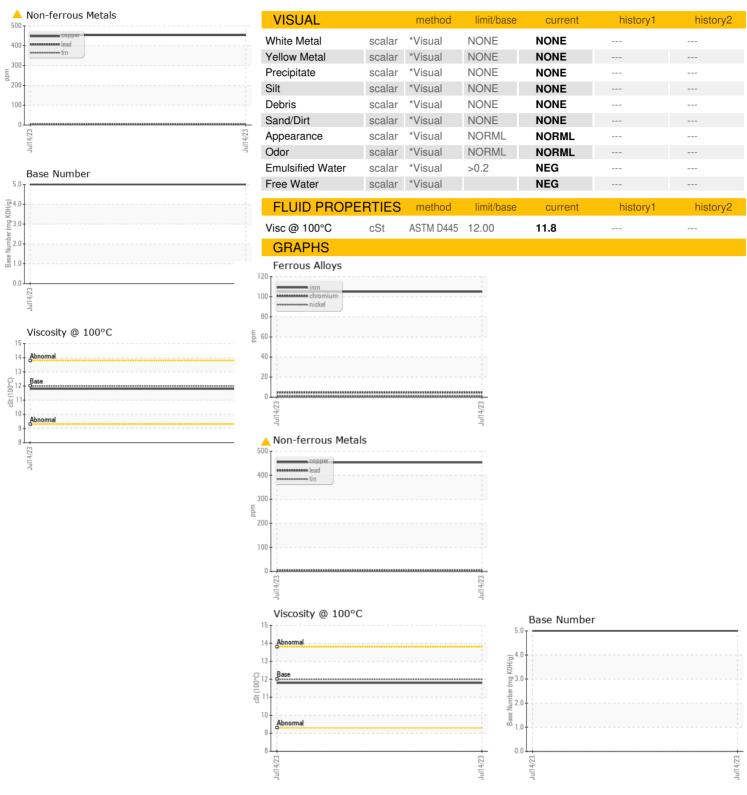
### **Fluid Condition**

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.

AL)				Jul2023		
SAMPLE INFORMA	NOITA	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0100632		
Sample Date		Client Info		14 Jul 2023		
Machine Age n	nls	Client Info		48307		
Dil Age n	nls	Client Info		47369		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
uel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
<b>ron</b> p	pm	ASTM D5185m	>80	105		
<b>Chromium</b> p	pm	ASTM D5185m	>5	5		
<b>lickel</b> p	pm	ASTM D5185m	>2	1		
- itanium p	pm	ASTM D5185m		<1		
Silver p	pm	ASTM D5185m	>3	0		
<b>Aluminum</b> p	ppm	ASTM D5185m	>30	50		
.ead p	pm	ASTM D5185m	>30	3		
Copper p	pm	ASTM D5185m	>150	<b>453</b>		
in p	pm	ASTM D5185m	>5	6		
anadium p	pm	ASTM D5185m		<1		
<b>Cadmium</b> p	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron p	pm	ASTM D5185m	2	28		
Barium p	pm	ASTM D5185m	0	0		
<b>Molybdenum</b> p	ppm	ASTM D5185m	50	49		
	pm	ASTM D5185m	0	4		
<b>/lagnesium</b> p	ppm	ASTM D5185m	950	584		
	pm	ASTM D5185m	1050	2026		
	pm	ASTM D5185m	995	805		
	pm	ASTM D5185m	1180	972		
<b>Sulfur</b> p	ppm	ASTM D5185m	2600	2163		
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon p	ppm	ASTM D5185m	>20	10		
	pm	ASTM D5185m		8		
Potassium p	ppm	ASTM D5185m	>20	150		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.2		
Nitration A	Abs/cm	*ASTM D7624	>20	18.7		
Sulfation A	lbs/.1mm	*ASTM D7415	>30	28.9		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation A	lbs/.1mm	*ASTM D7414	>25	38.7		
Base Number (BN)	ng KOH/g	ASTM D2896		5.0		



## **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number

Unique Number

: PCA0100632 : 05902077 : 10563433 Test Package : FLEET

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

: 19 Jul 2023 : 21 Jul 2023 : Angela Borella Diagnostician

Pineville, NC US 28134 Contact: Vlad Melnichuk

9349 China Grove Church Road

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

A Truck Repair

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)