

## **PROBLEM SUMMARY**

Sample Rating Trend

WEAR



# FREIGHTLINER 238

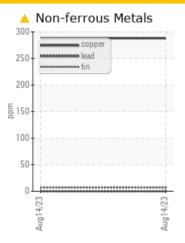
Component

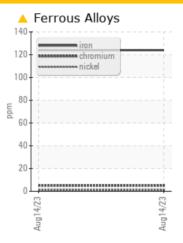
Diocol Engine

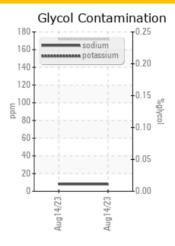
**Diesel Engine** 

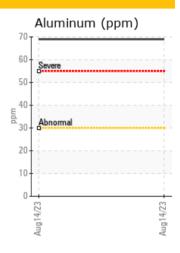
PETRO CANADA DURON SHP 10W30 (--- GAL)

#### **COMPONENT CONDITION SUMMARY**









#### RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

PROBLEMATION	PROBLEMATIC TEST RESULTS						
Sample Status				ABNORMAL			
Iron	ppm	ASTM D5185m	>80	<b>124</b>			
Chromium	ppm	ASTM D5185m	>5	<u> </u>			
Copper	ppm	ASTM D5185m	>150	<b>288</b>			
Tin	ppm	ASTM D5185m	>5	<u>^</u> 7			

Customer Id: ATRPIN Sample No.: PCA0102624 Lab Number: 05924124 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
Resample			?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

Sample Rating Trend

WEAR

## FREIGHTLINER 238

Component

**Diesel Engine** 

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

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

#### Wear

Cylinder, crank, or cam shaft wear is indicated. Bearing wear is indicated.

#### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

#### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil.

AL)				Aug2023		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0102624		
Sample Date		Client Info		14 Aug 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS	,	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	<b>124</b>		
Chromium	ppm	ASTM D5185m	>5	<u>^</u> 5		
	ppm	ASTM D5185m	>2	1		
	ppm	ASTM D5185m		<1		
	ppm	ASTM D5185m	>3	0		
	ppm		>30	69		
	ppm	ASTM D5185m	>30	0		
	ppm		>150	<b>△</b> 288		
	ppm	ASTM D5185m	>5	<u>^</u> 7		
	ppm	ASTM D5185m		0		
	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	24		
	ppm	ASTM D5185m	_	0		
	ppm	ASTM D5185m	50	45		
	ppm	ASTM D5185m		5		
		ASTM D5105III	950	564		
	ppm		1050	1860		
	ppm	ASTM D5185m	995	730		
	ppm		1180	914		
	ppm ppm	ASTM D5185m	2600	2050		
CONTAMINANT		method	limit/base	current	history1	history2
	ppm	ASTM D5185m		13		
	ppm	ASTM D5185m		8		
	ppm		>20	172		
	%	ASTM D3524	>5	<1.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1		
	Abs/cm	*ASTM D7624	>20	16.7		

Sulfation

Oxidation

Abs/.1mm \*ASTM D7415 >30

Abs/.1mm \*ASTM D7414 >25

FLUID DEGRADATION method

Base Number (BN) mg KOH/g ASTM D2896

history1

26.5

35.9

4.2

current

limit/base

history2



## **OIL ANALYSIS REPORT**

