

PROBLEM SUMMARY

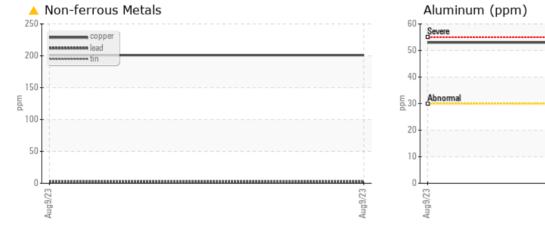
Sample Rating Trend

(AY418B) Supermarket Machine Id FREIGHTLINER 107A1852

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 10W30 (11 GAL)

COMPONENT CONDITION SUMMARY





WEAR

RECOMMENDATION

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

PROBLEMATIC	C TEST	RESULT	S		
Sample Status				ABNORMAL	
Copper	ppm	ASTM D5185m	>150	<u> </u>	

Customer Id: TSV1072 Sample No.: PCA0100410 Lab Number: 05924049 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED	ECOMMENDED 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

WEAR

Area (AY418B) Supermarket Machine Id FREIGHTLINER 107A1852

Diesel Engine

PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

A 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. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.

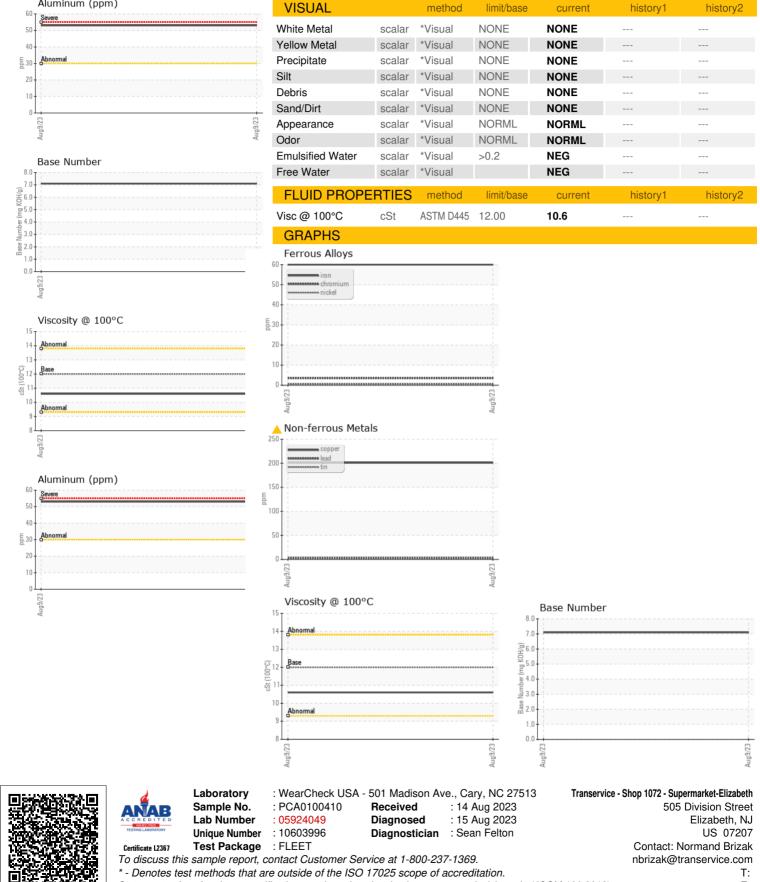
Contamination

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. The condition of the oil is acceptable for the time in service.

AL)				Aug2023		
SAMPLE INFOR		method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0100410		
Sample Date		Client Info		09 Aug 2023		
Machine Age	hrs	Client Info		33551		
Dil Age	hrs	Client Info		33551		
Dil Changed	1110	Client Info		Changed		
Sample Status				ABNORMAL		
		method	limit/base			
				current	history1	history2
-uel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	60		
Chromium	ppm	ASTM D5185m	>5	4		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	53		
_ead	ppm	ASTM D5185m	>30	2		
Copper	ppm	ASTM D5185m	>150	<u> </u>		
Tin	ppm	ASTM D5185m	>5	4		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	30		
Barium	ppm	ASTM D5185m	0	0		
Nolybdenum	ppm	ASTM D5185m	50	50		
Vanganese	ppm	ASTM D5185m		4		
Vagnesium	ppm	ASTM D5185m	950	662		
Calcium	ppm	ASTM D5185m	1050	1821		
Phosphorus		ASTM D5185m	995	815		
Zinc	ppm	ASTM D5185m	1180	1059		
Sulfur	ppm ppm	ASTM D5185m	2600	2562		
CONTAMINAN		method	limit/base	current	history1	history?
				current		history2
Silicon	ppm	ASTM D5185m	>20	7		
Sodium	ppm	ASTM D5185m		5		
Dotooolum		ACTM DE10E-	. 20	150		
Potassium	ppm	ASTM D5185m		158		
Potassium		method	>20 limit/base	158 current	history1	history2
INFRA-RED						
	ppm	method	limit/base >3	current	history1	history2
INFRA-RED Soot %	ppm %	method *ASTM D7844	limit/base >3	current 0.8	history1	history2
INFRA-RED Soot % Nitration	ppm % Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >3 >20	current 0.8 10.8	history1 	history2
INFRA-RED Soot % Nitration Sulfation	ppm % Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >3 >20 >30 limit/base	current 0.8 10.8 23.4	history1 	history2



OIL ANALYSIS REPORT

* - 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)

OIL

DIAGNOSTICS

Aluminum (ppm)

F: