

PROBLEM SUMMARY

Sample Rating Trend **WEAR**

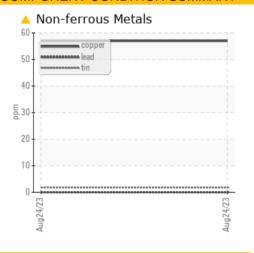
FREIGHTLINER 183

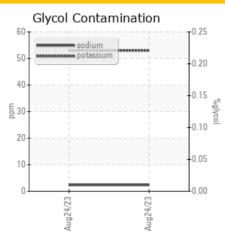
Component

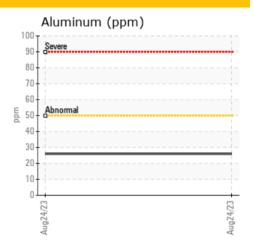
Diesel Engine

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

COMPONENT CONDITION SUMMARY







RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	
Copper	ppm	ASTM D5185m	>50	△ 57	

Customer Id: TVAPLAIL Sample No.: PCA0097416 Lab Number: 05971988 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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



FREIGHTLINER 183

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. 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. No other contaminants were detected in the oil.

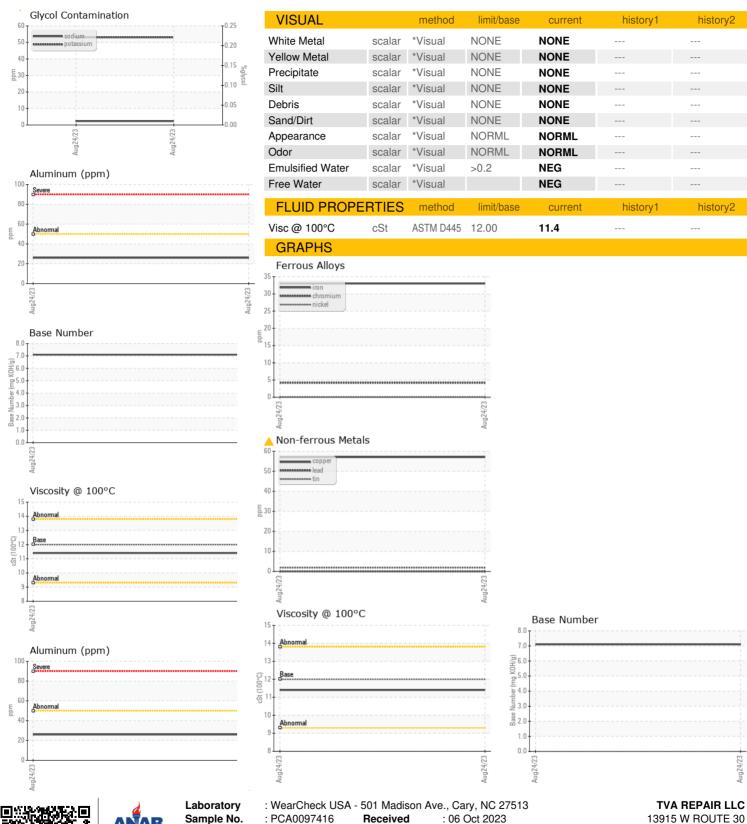
Fluid Condition

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

iAL)				Aug2023			
SAMPLE INFOR	MATION	method	limit/base		history1	history2	
Sample Number		Client Info		PCA0097416			
Sample Number		Client Info		24 Aug 2023			
Machine Age	mls	Client Info		108000			
Oil Age	mls	Client Info		25000			
Dil Changed	11113	Client Info		Changed			
Sample Status				ABNORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2	
uel		WC Method	>3.0	<1.0			
Glycol		WC Method	70.0	NEG			
WEAR METAL	.S	method	limit/base	current	history1	history2	
ron	ppm	ASTM D5185m	>200	33			
Chromium	ppm	ASTM D5185m	>6	4			
Nickel	ppm	ASTM D5185m	>3	0			
Fitanium -	ppm	ASTM D5185m	>2	0			
Silver	ppm	ASTM D5185m	>2	0			
Aluminum	ppm	ASTM D5185m	>50	26			
.ead	ppm	ASTM D5185m	>10	0			
Copper	ppm	ASTM D5185m	>50	<u> </u>			
in	ppm	ASTM D5185m	>6	2			
/anadium	ppm	ASTM D5185m		0			
Cadmium	ppm	ASTM D5185m		0			
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	0			
Barium	ppm	ASTM D5185m	0	0			
Nolybdenum	ppm	ASTM D5185m	50	66			
Manganese	ppm	ASTM D5185m	0	<1			
/lagnesium	ppm	ASTM D5185m	950	1000			
Calcium	ppm	ASTM D5185m	1050	1101			
Phosphorus	ppm	ASTM D5185m	995	982			
Zinc	ppm	ASTM D5185m	1180	1283			
Sulfur	ppm	ASTM D5185m	2600	2791			
CONTAMINAN	ITS	method	limit/base	current	history1	history	
Silicon	ppm	ASTM D5185m	>50	5			
Sodium	ppm	ASTM D5185m		2			
Potassium	ppm	ASTM D5185m	>20	53			
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.3			
Nitration	Abs/cm	*ASTM D7624		8.6			
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5			
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6			
Base Number (BN)	mg KOH/g	ASTM D2896		7.1			



OIL ANALYSIS REPORT





Certificate L2367

Sample No. Lab Number **Unique Number**

Test Package : FLEET

: PCA0097416 : 05971988

: 10683938

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

Received Diagnosed Diagnostician

: 10 Oct 2023 : Don Baldridge

PLAINFIELD, IL US 60544 Contact: JOSHUA HUBBARD

joshua@tvarepairllc.com T: (815)306-0330

* - 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)