

PROBLEM SUMMARY

Sample Rating Trend

WEAR



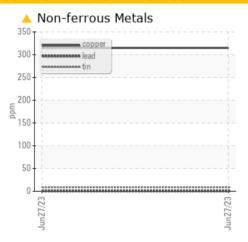
FREIGHTLINER 248

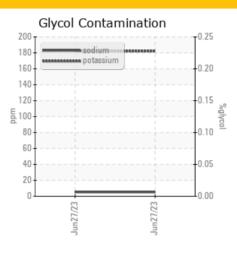
Component

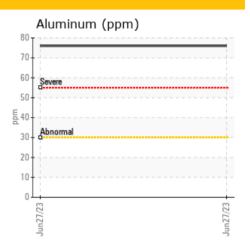
Diesel Engine

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

COMPONENT CONDITION SUMMARY







RECOMMENDATION

Oil and filter change at the time of sampling has been noted. 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	>150	4 315	

Customer Id: ATRPIN Sample No.: PCA0100627 Lab Number: 05889881 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	
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 248

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Oil and filter 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. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

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.

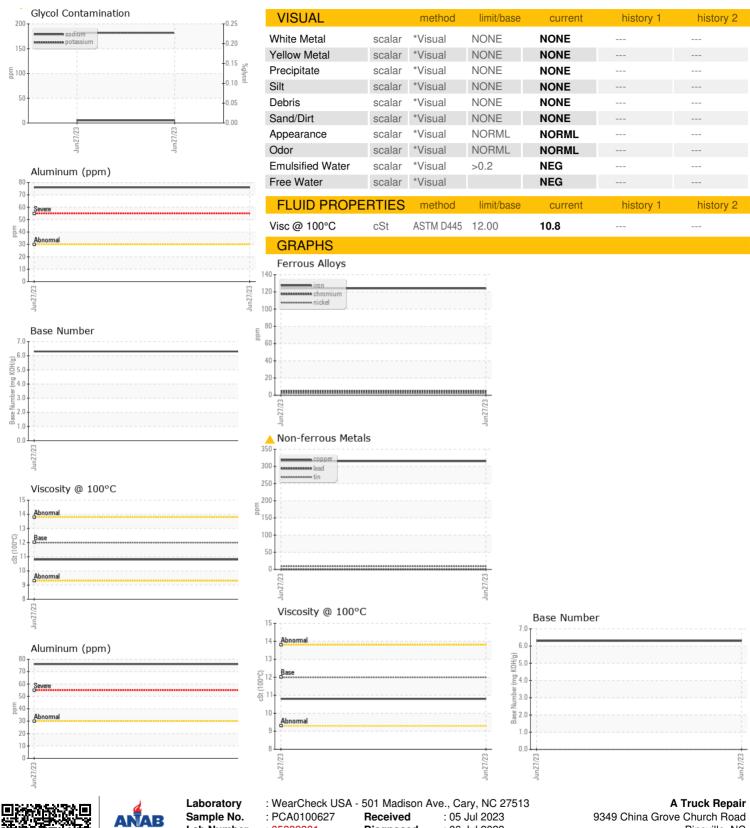
Fluid Condition

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.

						,
iAL)				Jun 2023		
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0100627		
Sample Date		Client Info		27 Jun 2023		
Machine Age	mls	Client Info		49767		
Oil Age	mls	Client Info		49767		
Oil Changed	11110	Client Info		Changed		
Sample Status		Olioni illio		ABNORMAL		
· ·	IONI	and the section	1111-0			
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>80	124		
Chromium	ppm	ASTM D5185m	>5	4		
Nickel	ppm	ASTM D5185m	>2	2		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	76		
Lead	ppm	ASTM D5185m	>30	<1		
Copper	ppm	ASTM D5185m	>150	<u>▲</u> 315		
Tin	ppm	ASTM D5185m	>5	9		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	2	30		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	50	51		
Manganese	ppm	ASTM D5185m	0	4		
Magnesium	ppm	ASTM D5185m	950	585		
Calcium	ppm	ASTM D5185m	1050	2001		
Phosphorus	ppm	ASTM D5185m	995	836		
Zinc	ppm	ASTM D5185m	1180	1042		
Sulfur	ppm	ASTM D5185m	2600	2156		
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>20	12		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	182		
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	1.1		
Nitration	Abs/cm	*ASTM D7624		14.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.2		
FLUID DEGRAI	NOITAC	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	30.6		
Base Number (BN)	mg KOH/g		-	6.3		
(DIV)	mg nong	. IO THI DEGGO		0.0		



OIL ANALYSIS REPORT







Certificate L2367

Lab Number **Unique Number** Test Package : FLEET

: 10545691

: 05889881

Diagnosed : 06 Jul 2023 Diagnostician

: Don Baldridge

Pineville, NC US 28134 Contact: Vlad Melnichuk

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

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)