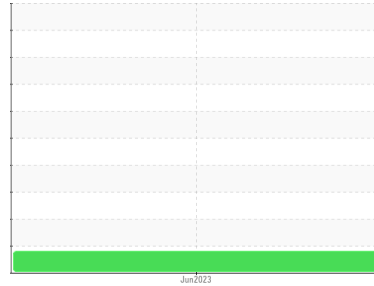




PROBLEM SUMMARY

Sample Rating Trend



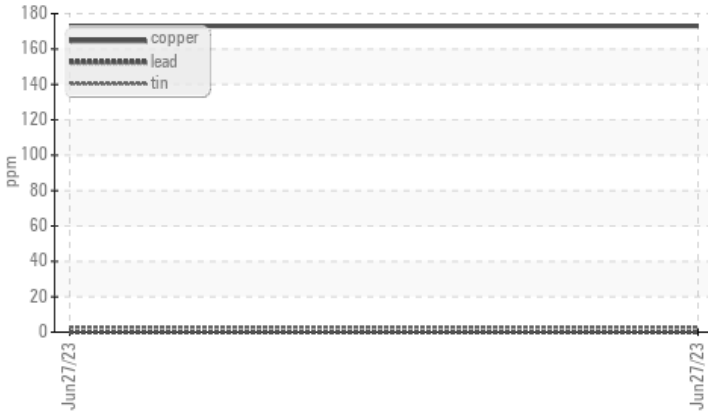
WEAR



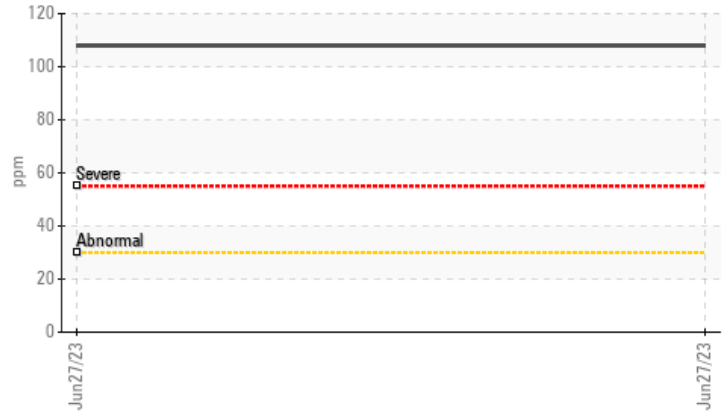
Area
(55221Z) Walgreens
Machine Id
[Walgreens] 136A63352
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



Aluminum (ppm)



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Copper	ppm	ASTM D5185m	>150	▲ 173	---	---

Customer Id: TSV1369
Sample No.: PCA0094938
Lab Number: 05889908
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

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



Area
(55221Z) Walgreens
Machine Id
[Walgreens] 136A63352
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (11 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. 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 suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history 1	history 2
Sample Number	Client Info	PCA0094938	---	---
Sample Date	Client Info	27 Jun 2023	---	---
Machine Age	hrs	Client Info	63517	---
Oil Age	hrs	Client Info	63517	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history 1	history 2
Fuel	WC Method	>5	<1.0	---
Glycol	WC Method		NEG	---

WEAR METALS

method	limit/base	current	history 1	history 2	
Iron	ppm	ASTM D5185m	>80	69	---
Chromium	ppm	ASTM D5185m	>5	7	---
Nickel	ppm	ASTM D5185m	>2	2	---
Titanium	ppm	ASTM D5185m		<1	---
Silver	ppm	ASTM D5185m	>3	0	---
Aluminum	ppm	ASTM D5185m	>30	108	---
Lead	ppm	ASTM D5185m	>30	0	---
Copper	ppm	ASTM D5185m	>150	▲ 173	---
Tin	ppm	ASTM D5185m	>5	3	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

method	limit/base	current	history 1	history 2	
Boron	ppm	ASTM D5185m	2	24	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	50	57	---
Manganese	ppm	ASTM D5185m	0	4	---
Magnesium	ppm	ASTM D5185m	950	589	---
Calcium	ppm	ASTM D5185m	1050	1682	---
Phosphorus	ppm	ASTM D5185m	995	772	---
Zinc	ppm	ASTM D5185m	1180	960	---
Sulfur	ppm	ASTM D5185m	2600	1898	---

CONTAMINANTS

method	limit/base	current	history 1	history 2	
Silicon	ppm	ASTM D5185m	>20	8	---
Sodium	ppm	ASTM D5185m		6	---
Potassium	ppm	ASTM D5185m	>20	257	---

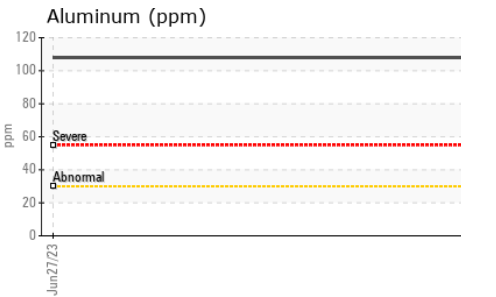
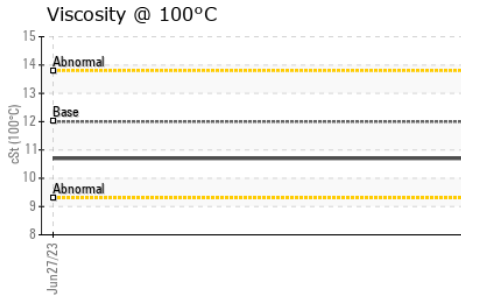
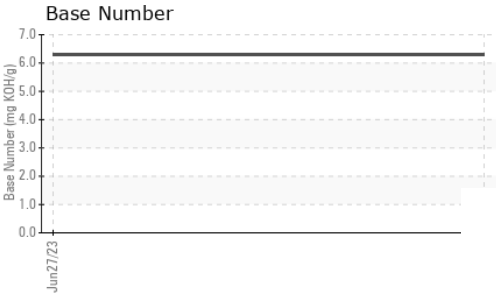
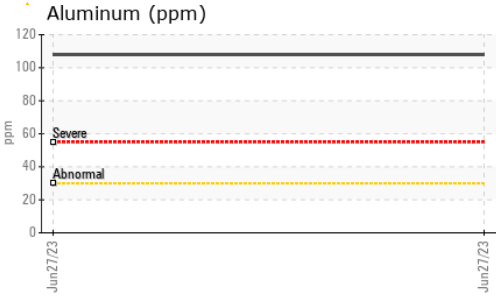
INFRA-RED

method	limit/base	current	history 1	history 2	
Soot %	%	*ASTM D7844	>3	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	12.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9	---

FLUID DEGRADATION

method	limit/base	current	history 1	history 2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.0	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.3	---

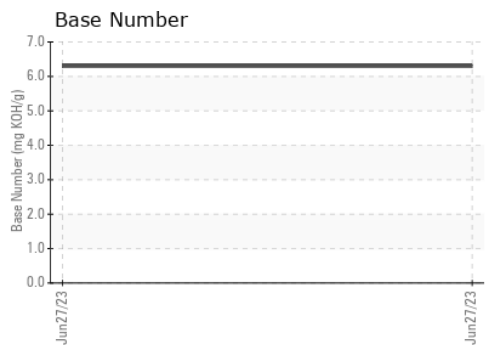
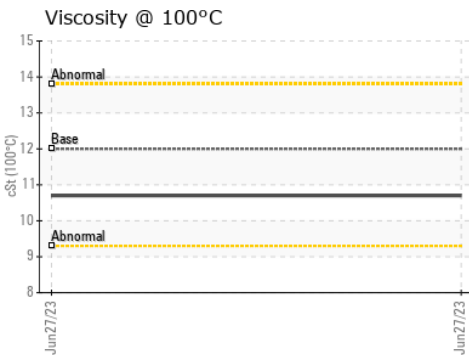
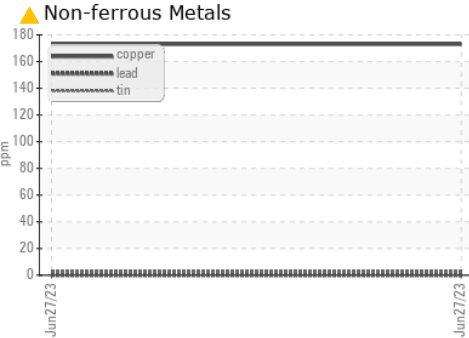
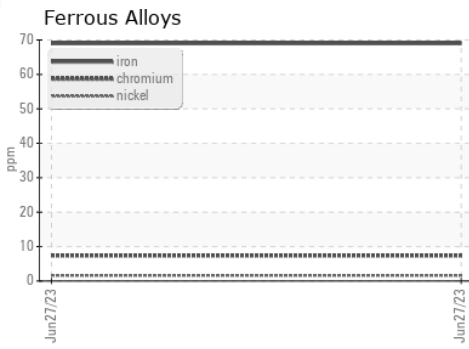
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history 1	history 2	
Visc @ 100°C	cSt	ASTM D445	12.00	10.7	---	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0094938 **Received** : 05 Jul 2023
Lab Number : 05889908 **Diagnosed** : 06 Jul 2023
Unique Number : 10545718 **Diagnostician** : Doug Bogart
Test Package : FLEET

Transervice - Shop 1369 - Berkeley-Waxahachie
 710 Ovilla Road
 Waxahachie, TX
 US 75167
 Contact: Robert Beal
 rbeal@transervice.com
 T: (972)923-9928
 F: (972)923-9919

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)