

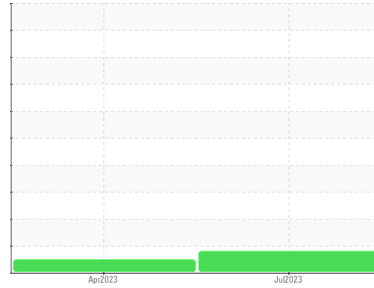
PROBLEM SUMMARY

Sample Rating Trend

WEAR

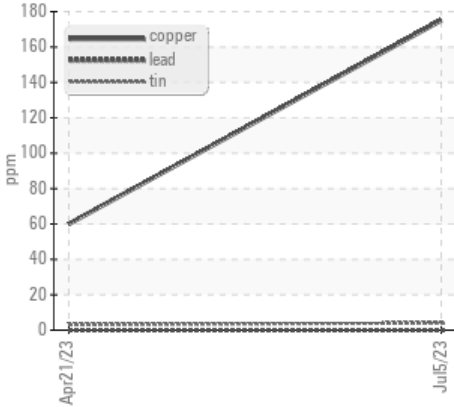


Area
(51455Z) Walgreens
 Machine Id
[Walgreens] 136A63281
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

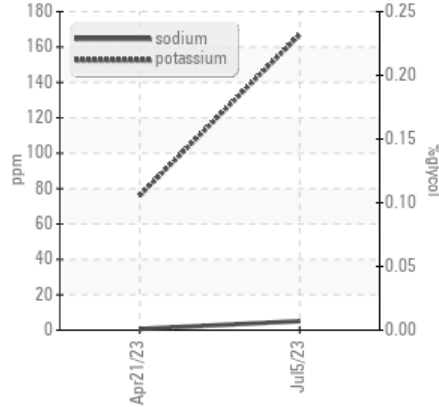


COMPONENT CONDITION SUMMARY

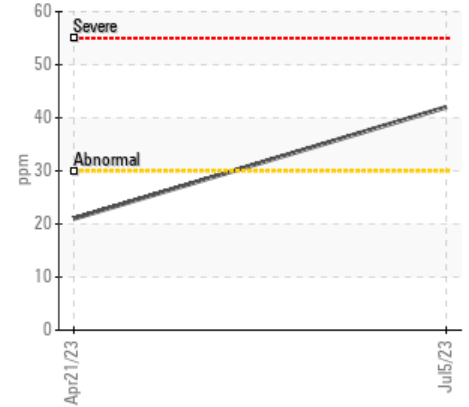
▲ Non-ferrous Metals



Glycol Contamination



Aluminum (ppm)



RECOMMENDATION

No corrective action is recommended at this time.
 Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL	NORMAL	---
Copper	▲ 175	60	---

Customer Id: TSV1364
 Sample No.: PCA0100258
 Lab Number: 05896751
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +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

21 Apr 2023 Diag: Sean Felton

NORMAL



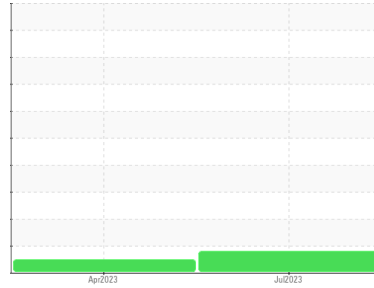
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
(51455Z) Walgreens
Machine Id
[Walgreens] 136A63281
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

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 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.

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	history1	history2
Sample Number	Client Info			PCA0100258	PCA0094684	---
Sample Date	Client Info			05 Jul 2023	21 Apr 2023	---
Machine Age	mls	Client Info		35396	10290	---
Oil Age	mls	Client Info		35396	10290	---
Oil Changed	Client Info			Not Chngd	Not Chngd	---
Sample Status				ABNORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	<1.0	---
Glycol	WC Method			NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	42	23	---
Chromium	ppm	ASTM D5185m	>5	2	<1	---
Nickel	ppm	ASTM D5185m	>2	1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>30	42	21	---
Lead	ppm	ASTM D5185m	>30	0	0	---
Copper	ppm	ASTM D5185m	>150	▲ 175	60	---
Tin	ppm	ASTM D5185m	>5	4	3	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

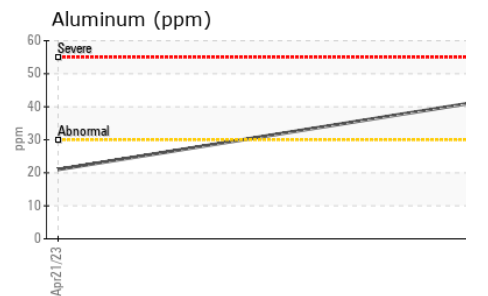
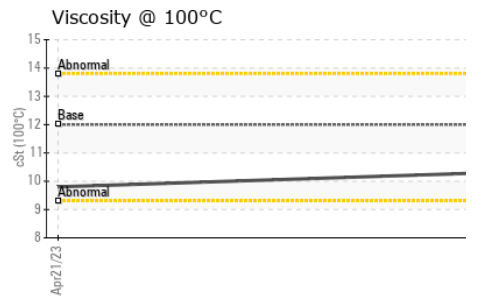
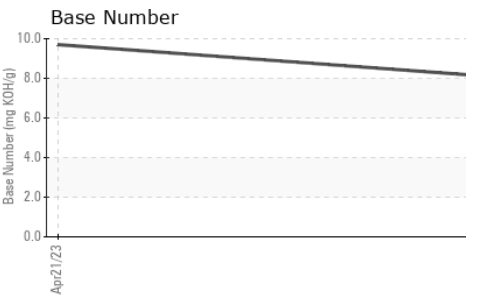
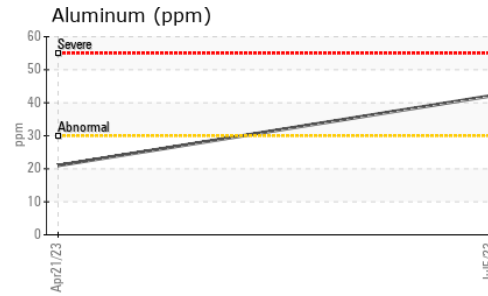
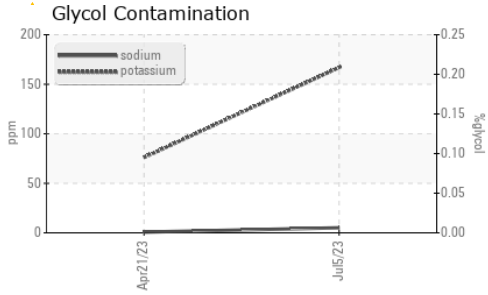
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	33	60	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	50	47	46	---
Manganese	ppm	ASTM D5185m	0	3	2	---
Magnesium	ppm	ASTM D5185m	950	510	503	---
Calcium	ppm	ASTM D5185m	1050	1817	1775	---
Phosphorus	ppm	ASTM D5185m	995	733	768	---
Zinc	ppm	ASTM D5185m	1180	922	947	---
Sulfur	ppm	ASTM D5185m	2600	2161	2448	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	7	6	---
Sodium	ppm	ASTM D5185m		5	<1	---
Potassium	ppm	ASTM D5185m	>20	167	76	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	10.5	6.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	22.9	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.5	20.8	---
Base Number (BN)	mg KOH/g	ASTM D2896		8.1	9.7	---

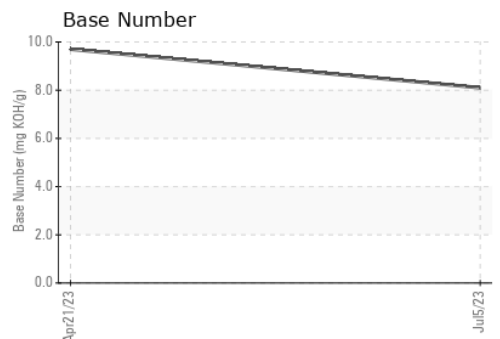
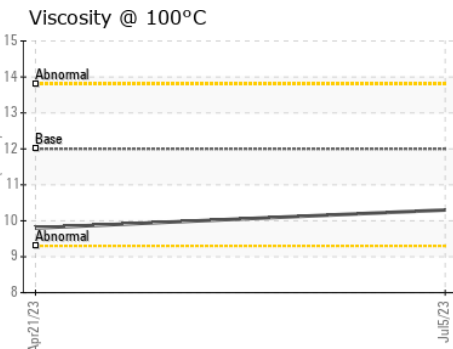
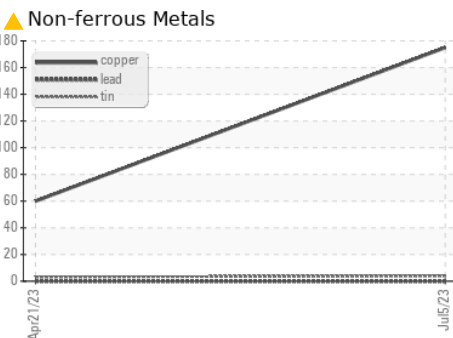
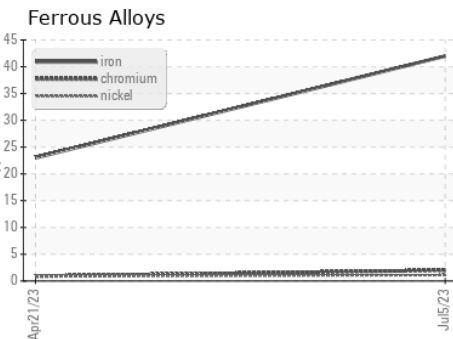
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
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	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	10.3	9.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0100258
Lab Number : 05896751
Unique Number : 10552561
Test Package : FLEET

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 Mt. Vernon, IL
 US 62864
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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)