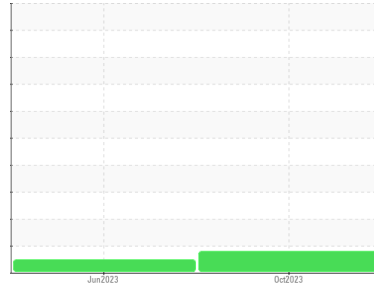


PROBLEM SUMMARY

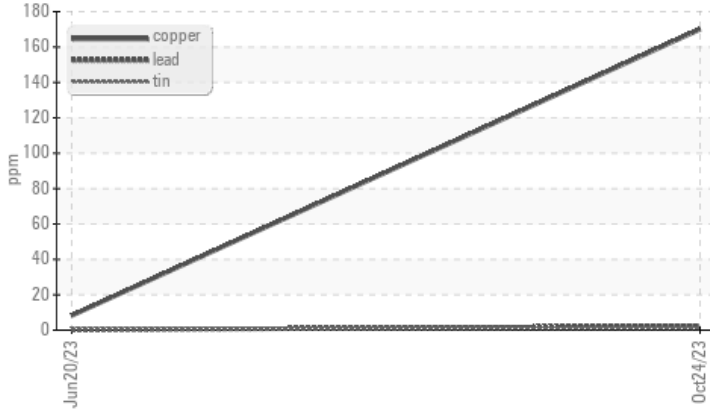
Area
(89820X) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A68032
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



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	NORMAL	---
Copper	ppm	ASTM D5185m	>150	▲ 170	8	---

Customer Id: TSV1376
 Sample No.: PCA0093468
 Lab Number: 05997702
 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

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

20 Jun 2023 Diag: Don Baldrige

NORMAL



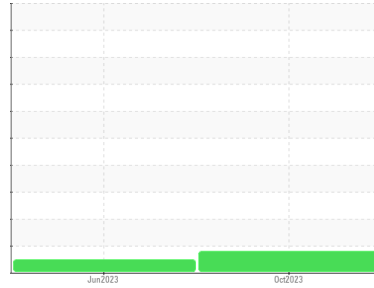
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
(89820X) Walgreens - Tractor
Machine Id
[Walgreens - Tractor] 136A68032
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. 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

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	history1	history2
Sample Number	Client Info	PCA0093468	PCA0093545	---
Sample Date	Client Info	24 Oct 2023	20 Jun 2023	---
Machine Age	hrs	Client Info	162848	151911
Oil Age	hrs	Client Info	10937	151911
Oil Changed	Client Info	Changed	Changed	---
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	43	24
Chromium	ppm	ASTM D5185m	>5	2	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1
Titanium	ppm	ASTM D5185m		12	<1
Silver	ppm	ASTM D5185m	>3	0	0
Aluminum	ppm	ASTM D5185m	>30	4	3
Lead	ppm	ASTM D5185m	>30	2	<1
Copper	ppm	ASTM D5185m	>150	▲ 170	8
Tin	ppm	ASTM D5185m	>5	1	<1
Vanadium	ppm	ASTM D5185m		<1	0
Cadmium	ppm	ASTM D5185m		0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	13	81
Barium	ppm	ASTM D5185m	0	1	11
Molybdenum	ppm	ASTM D5185m	50	49	43
Manganese	ppm	ASTM D5185m	0	1	1
Magnesium	ppm	ASTM D5185m	950	792	269
Calcium	ppm	ASTM D5185m	1050	1274	2116
Phosphorus	ppm	ASTM D5185m	995	891	1060
Zinc	ppm	ASTM D5185m	1180	1196	1250
Sulfur	ppm	ASTM D5185m	2600	2955	4019

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	9	16
Sodium	ppm	ASTM D5185m		7	13
Potassium	ppm	ASTM D5185m	>20	7	14

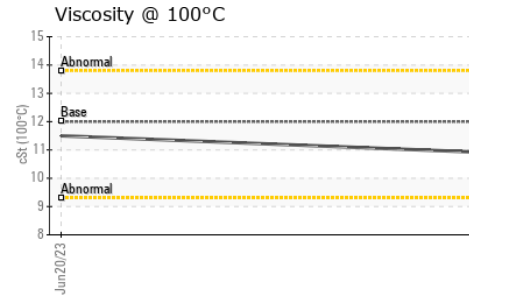
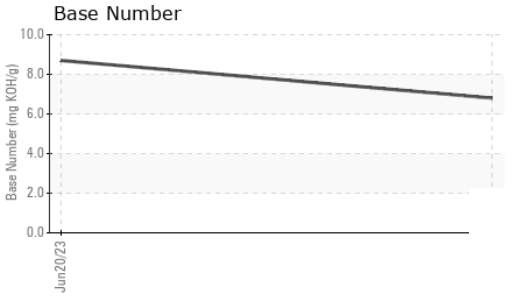
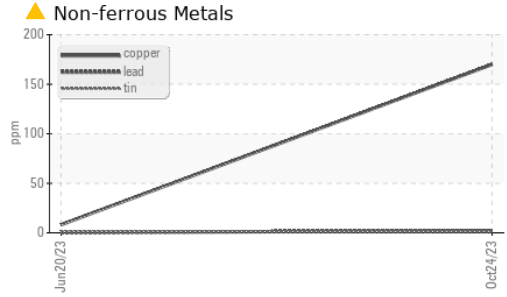
INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.7	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.8	6.9
Sulfation	Abs.1mm	*ASTM D7415	>30	21.1	18.7

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs.1mm	*ASTM D7414	>25	17.1	13.4
Base Number (BN)	mg KOH/g	ASTM D2896		6.8	8.7

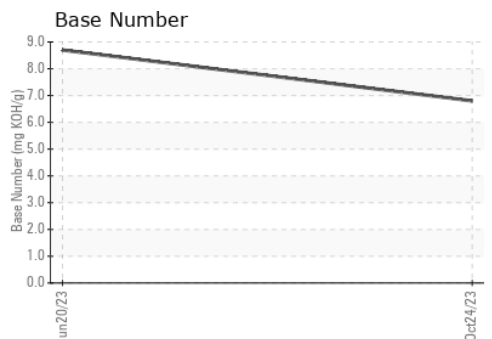
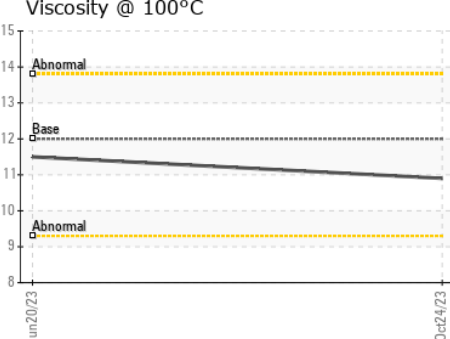
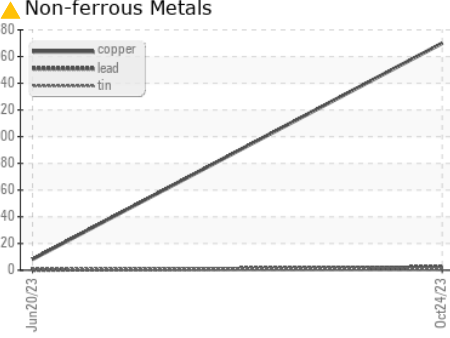
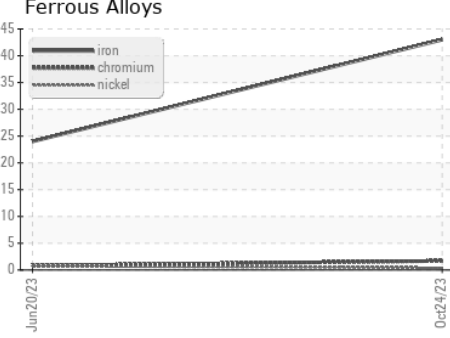
OIL ANALYSIS REPORT



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	10.9	11.5

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0093468 **Received** : 03 Nov 2023
Lab Number : **05997702** **Diagnosed** : 06 Nov 2023
Unique Number : 10726062 **Diagnostician** : Don Baldrige
Test Package : FLEET

Transervice - Shop 1376 - Berkeley-Linden
 3425 Tremley Point Road
 Linden, NJ
 US 07036
 Contact: Shop 1376 Oil Analysis
 shop1376@transervice.com
 T:
 F:

Certificate L2367
 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)