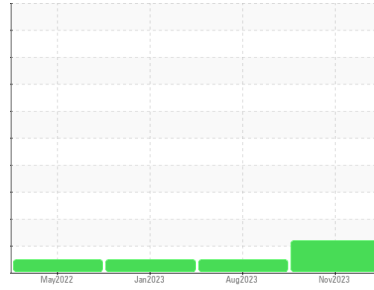


PROBLEM SUMMARY

Area
(89968X) Walgreens - Tractor
 Machine Id
[Walgreens - Tractor] 136A68053
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

Sample Rating Trend

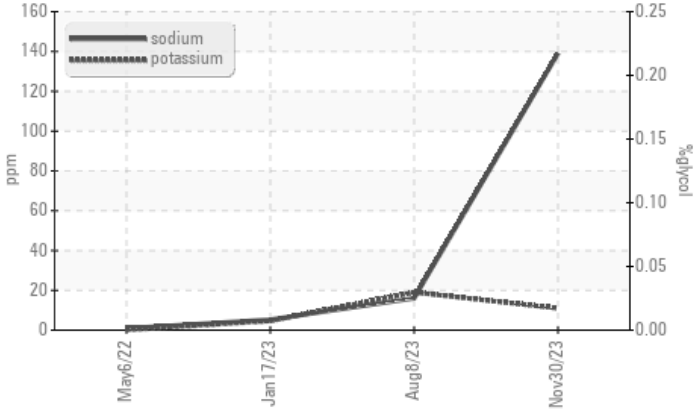


GLYCOL



COMPONENT CONDITION SUMMARY

▲ Glycol Contamination



RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	NORMAL
Sodium	ppm	ASTM D5185m	▲ 139	16	5

Customer Id: TSV1373
 Sample No.: PCA0111782
 Lab Number: 06027403
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@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.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Glycol Access	---	---	?	We advise that you check for the source of the coolant leak.

HISTORICAL DIAGNOSIS

08 Aug 2023 Diag: Wes Davis

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



17 Jan 2023 Diag: Wes Davis

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



06 May 2022 Diag: Wes Davis

NORMAL



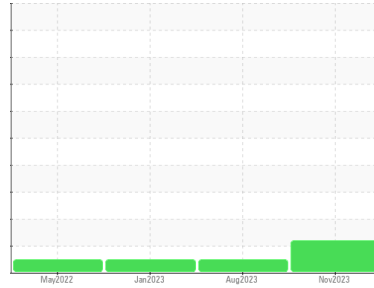
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Area
(89968X) Walgreens - Tractor
Machine Id
[Walgreens - Tractor] 136A68053
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0111782	PCA0101020	PCA0090879
Sample Date	Client Info	30 Nov 2023	08 Aug 2023	17 Jan 2023
Machine Age	mls Client Info	613018	605882	549078
Oil Age	mls Client Info	63940	56735	61328
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
Water	WC Method >0.2	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >80	4	41	36
Chromium	ppm ASTM D5185m >5	0	2	2
Nickel	ppm ASTM D5185m >2	0	0	<1
Titanium	ppm ASTM D5185m	0	0	<1
Silver	ppm ASTM D5185m >3	0	0	<1
Aluminum	ppm ASTM D5185m >30	2	17	18
Lead	ppm ASTM D5185m >30	0	0	1
Copper	ppm ASTM D5185m >150	<1	12	4
Tin	ppm ASTM D5185m >5	0	<1	1
Vanadium	ppm ASTM D5185m	0	<1	<1
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	2	4	8
Barium	ppm ASTM D5185m 0	0	0	5
Molybdenum	ppm ASTM D5185m 50	64	61	59
Manganese	ppm ASTM D5185m 0	<1	<1	<1
Magnesium	ppm ASTM D5185m 950	912	874	833
Calcium	ppm ASTM D5185m 1050	1047	1223	1343
Phosphorus	ppm ASTM D5185m 995	1017	983	1033
Zinc	ppm ASTM D5185m 1180	1221	1247	1335
Sulfur	ppm ASTM D5185m 2600	2998	3124	3189

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	5	9	7
Sodium	ppm ASTM D5185m	▲ 139	16	5
Potassium	ppm ASTM D5185m >20	11	19	5
Glycol	% *ASTM D2982	NEG	NEG	NEG

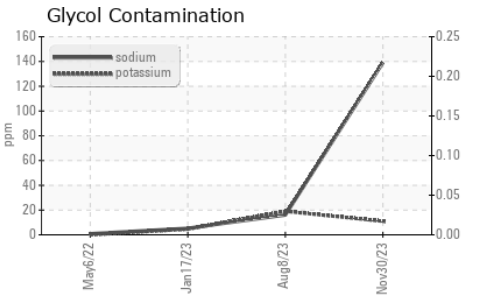
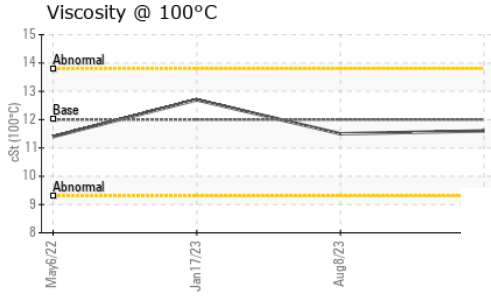
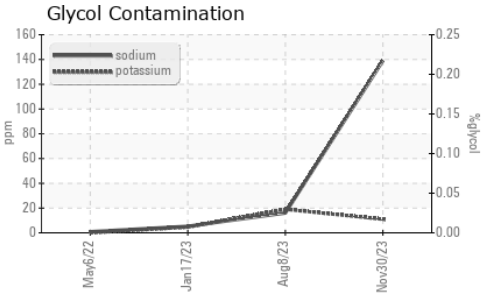
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.3	1.5	2
Nitration	Abs/cm *ASTM D7624 >20	6.0	11.8	12.3
Sulfation	Abs/.1mm *ASTM D7415 >30	18.2	27.2	27.6

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	13.7	21.6	21.9
Base Number (BN)	mg KOH/g ASTM D2896	8.2	5.0	5.1

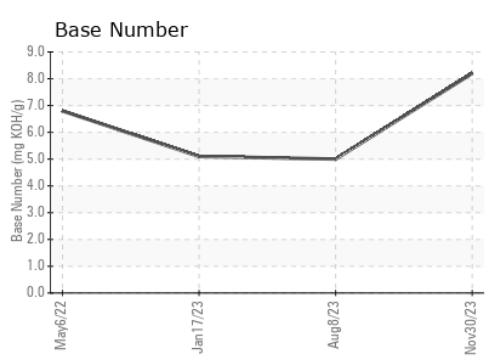
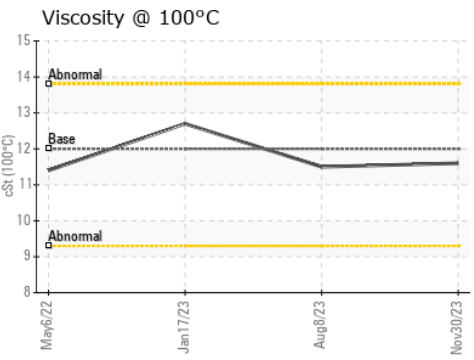
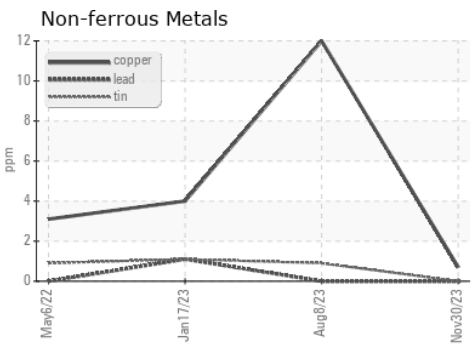
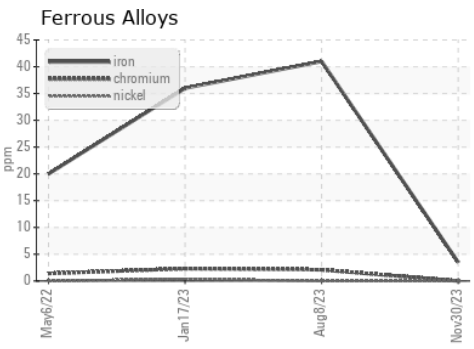
OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.6	11.5

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0111782 **Received** : 07 Dec 2023
Lab Number : **06027403** **Diagnosed** : 11 Dec 2023
Unique Number : 10777194 **Diagnostician** : Jonathan Hester
Test Package : FLEET (Additional Tests: Glycol)

Transervice - Shop 1373 - Berkeley-Anderson/Pendergrass
 101 Alliance Parkway
 Willamston, SC
 US 29697
 Contact: Sonny Boucher
 sboucher@transervice.com
 T: (864)226-2304
 F: (864)226-2329

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)