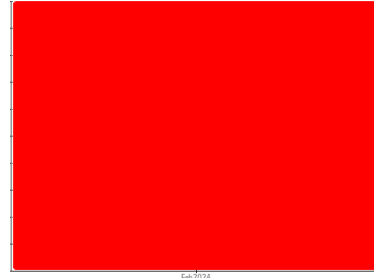


PROBLEM SUMMARY

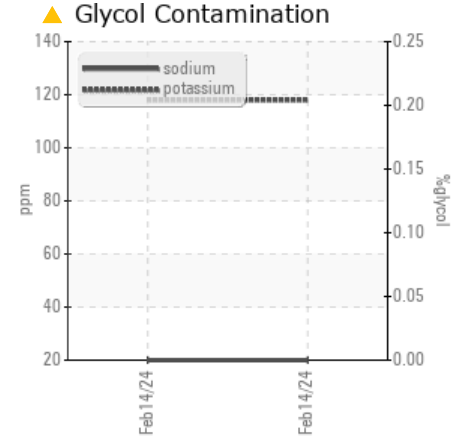
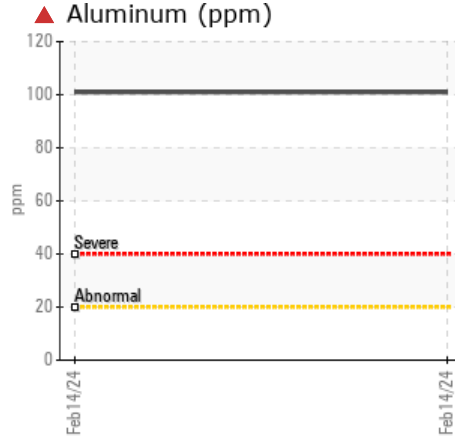
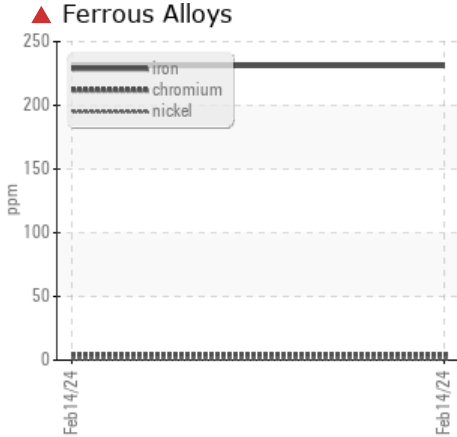
Sample Rating Trend

WEAR

Area
(H521302) Somerset Service-D-TRUCK
 Machine Id
[Somerset Service-D-TRUCK] 248D8095
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (8 GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for possible coolant leak. Check for low coolant level. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>100	▲ 231	---	---
Aluminum	ppm	ASTM D5185m	>20	▲ 101	---	---
Potassium	ppm	ASTM D5185m	>20	▲ 118	---	---

Customer Id: TSV2480
 Sample No.: PCA0116547
 Lab Number: 06100685
 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
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
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.

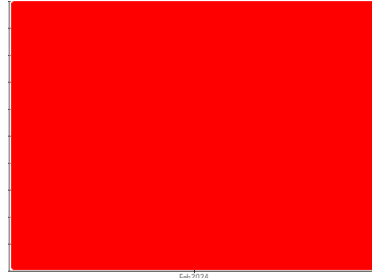
HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area
(H521302) Somerset Service-D-TRUCK
 Machine Id
[Somerset Service-D-TRUCK] 248D8095
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (8 GAL)



DIAGNOSIS

▲ Recommendation

We advise that you check for possible coolant leak. Check for low coolant level. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

▲ Wear

Piston and cylinder wear is indicated.

▲ 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		PCA0116547	---	---
Sample Date	Client Info		14 Feb 2024	---	---
Machine Age	mls	Client Info	199308	---	---
Oil Age	mls	Client Info	5729	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>2.0	<1.0	---	---
Water	WC Method	>0.2	NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	▲ 231	---	---
Chromium	ppm	ASTM D5185m >20	4	---	---
Nickel	ppm	ASTM D5185m >4	1	---	---
Titanium	ppm	ASTM D5185m	0	---	---
Silver	ppm	ASTM D5185m >3	0	---	---
Aluminum	ppm	ASTM D5185m >20	▲ 101	---	---
Lead	ppm	ASTM D5185m >40	2	---	---
Copper	ppm	ASTM D5185m >330	4	---	---
Tin	ppm	ASTM D5185m >15	<1	---	---
Vanadium	ppm	ASTM D5185m	<1	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	21	---	---
Barium	ppm	ASTM D5185m 0	0	---	---
Molybdenum	ppm	ASTM D5185m 50	68	---	---
Manganese	ppm	ASTM D5185m 0	2	---	---
Magnesium	ppm	ASTM D5185m 950	866	---	---
Calcium	ppm	ASTM D5185m 1050	1314	---	---
Phosphorus	ppm	ASTM D5185m 995	1115	---	---
Zinc	ppm	ASTM D5185m 1180	1299	---	---
Sulfur	ppm	ASTM D5185m 2600	3316	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	---	---
Sodium	ppm	ASTM D5185m	20	---	---
Potassium	ppm	ASTM D5185m >20	▲ 118	---	---
Glycol	%	*ASTM D2982	NEG	---	---

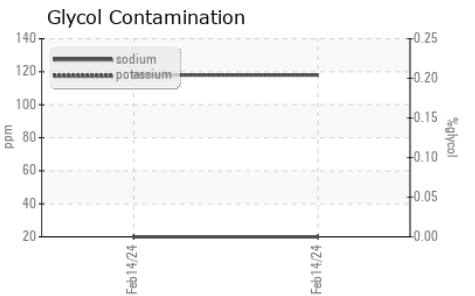
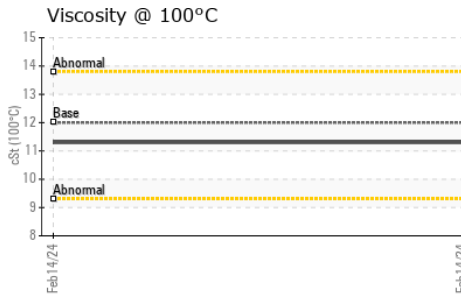
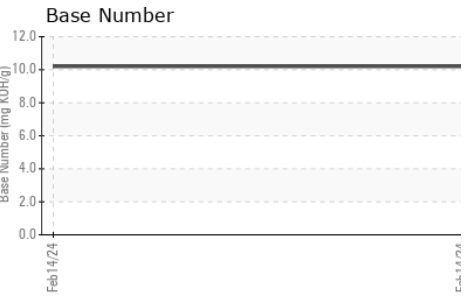
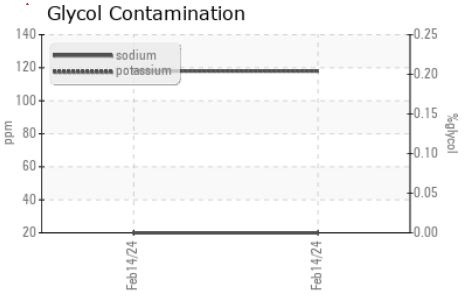
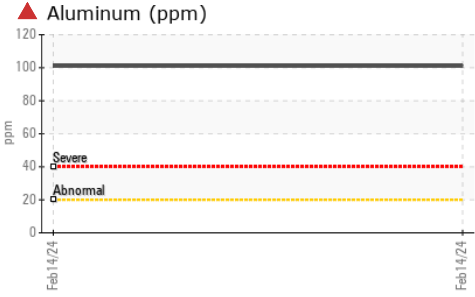
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.2	---	---
Nitration	Abs/cm	*ASTM D7624 >20	8.3	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.9	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	14.0	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	---	---

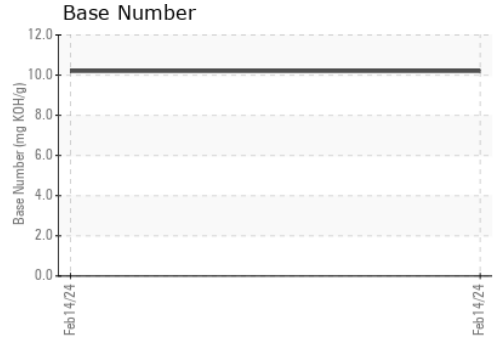
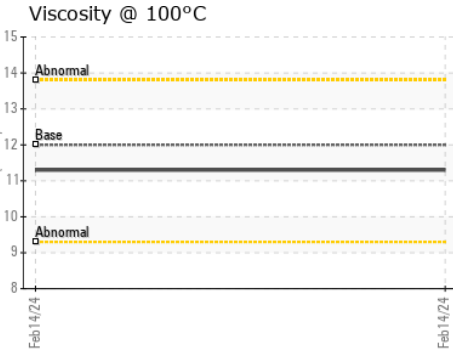
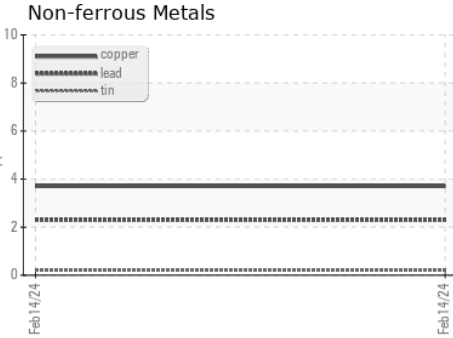
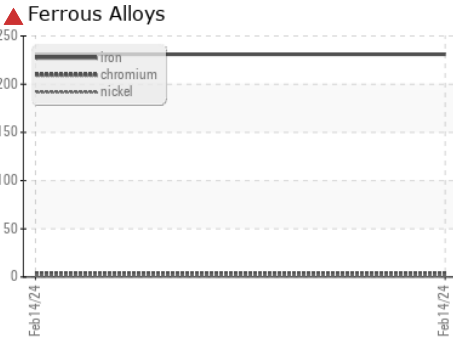
OIL ANALYSIS REPORT



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	11.3	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0116547
Lab Number : 06100685
Unique Number : 10898915
Test Package : FLEET (Additional Tests: Glycol)

Transervice - Shop 2480 - Somerset Service
 606 E. Bourne Avenue
 Somerset, KY
 US 42501
 Contact: Bart Beshears
 Shop2480@transervice.com

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)

T:
F: