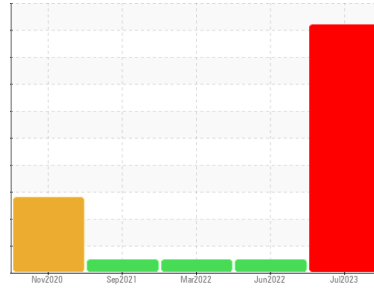




PROBLEM SUMMARY

Sample Rating Trend



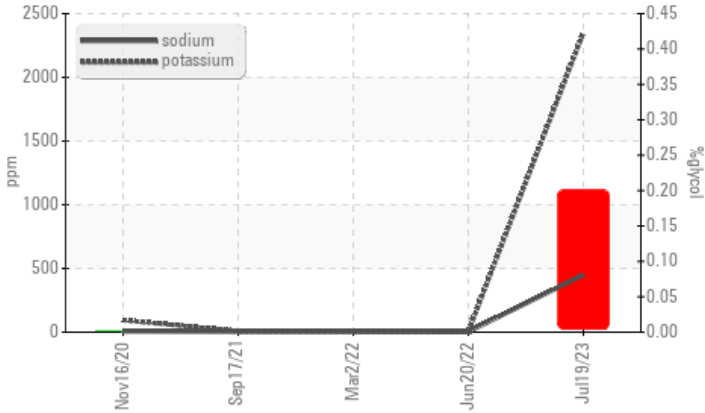
GLYCOL



Machine Id
21258P
 Component
Diesel Engine
 Fluid
SHELL ROTELLA T 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY

Glycol Contamination



RECOMMENDATION

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	NORMAL
Boron	ppm	ASTM D5185m	316	▲ 22	8	21
Molybdenum	ppm	ASTM D5185m	1.2	▲ 204	57	59
Sodium	ppm	ASTM D5185m		▲ 448	2	4
Potassium	ppm	ASTM D5185m	>20	▲ 2350	4	6
Glycol	%	*ASTM D2982		● 0.20	NEG	NEG

Customer Id: PGTRUCK
 Sample No.: WC0725708
 Lab Number: 05903666
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Wes Davis +1 905-569-8600 x223
wesd@wearcheck.ca

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	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Flush System	---	---	?	We advise that you flush the component thoroughly before re-filling with oil.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	Please specify the component make and model with your next sample.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.
Check Glycol Access	---	---	?	We advise that you check for the source of the coolant leak.

HISTORICAL DIAGNOSIS

20 Jun 2022 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



02 Mar 2022 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



17 Sep 2021 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.

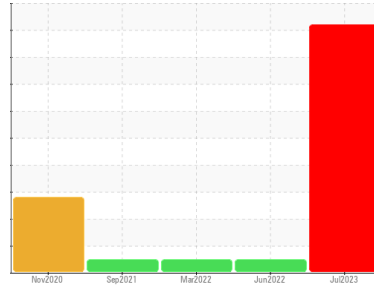
view report





OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id
21258P
 Component
Diesel Engine
 Fluid
SHELL ROTELLA T 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

Test for glycol is positive. There is a high concentration of glycol present in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0725708	WC0697378	WC0646496
Sample Date	Client Info	19 Jul 2023	20 Jun 2022	02 Mar 2022
Machine Age	mls	Client Info	0	159565
Oil Age	mls	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		SEVERE	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	39	18	27
Chromium	ppm ASTM D5185m >20	3	2	2
Nickel	ppm ASTM D5185m >4	0	0	0
Titanium	ppm ASTM D5185m	0	0	<1
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >20	5	4	5
Lead	ppm ASTM D5185m >40	4	4	13
Copper	ppm ASTM D5185m >330	2	1	2
Tin	ppm ASTM D5185m >15	<1	1	1
Antimony	ppm ASTM D5185m	---	---	0
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 316	▲ 22	8	21
Barium	ppm ASTM D5185m 0.0	0	0	0
Molybdenum	ppm ASTM D5185m 1.2	▲ 204	57	59
Manganese	ppm ASTM D5185m	1	<1	<1
Magnesium	ppm ASTM D5185m 24	425	883	778
Calcium	ppm ASTM D5185m 2292	1636	1115	1192
Phosphorus	ppm ASTM D5185m 1064	798	878	636
Zinc	ppm ASTM D5185m 1160	1225	1153	840
Sulfur	ppm ASTM D5185m 4996	3898	2633	1904

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	8	5	7
Sodium	ppm ASTM D5185m	▲ 448	2	4
Potassium	ppm ASTM D5185m >20	▲ 2350	4	6
Glycol	% *ASTM D2982	◆ 0.20	NEG	NEG

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.7	0.5	0.6
Nitration	Abs/cm *ASTM D7624 >20	14.9	10.7	14.6
Sulfation	Abs/.1mm *ASTM D7415 >30	26.4	22.9	29.2

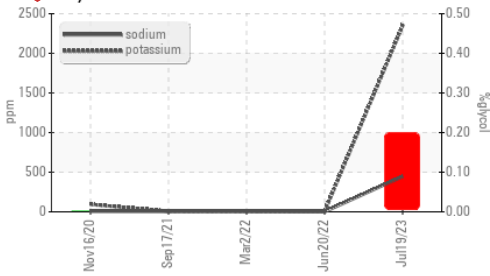
FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	22.1	19.0	29.9
Base Number (BN)	mg KOH/g ASTM D2896 10.1	8.7	6.1	4.5



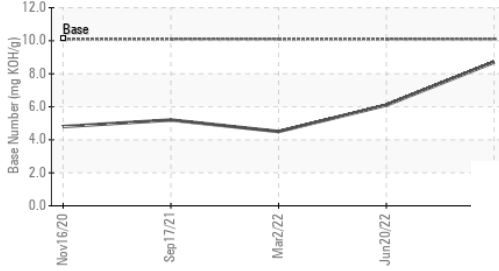
OIL ANALYSIS REPORT

Glycol Contamination



VISUAL	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

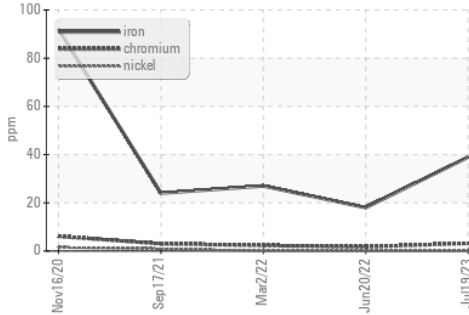
Base Number



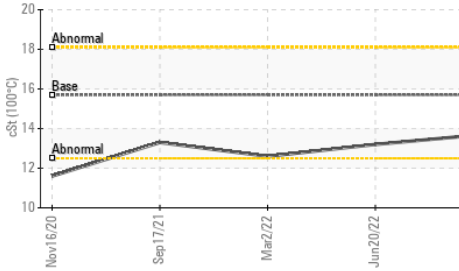
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.7	13.7	13.2

GRAPHS

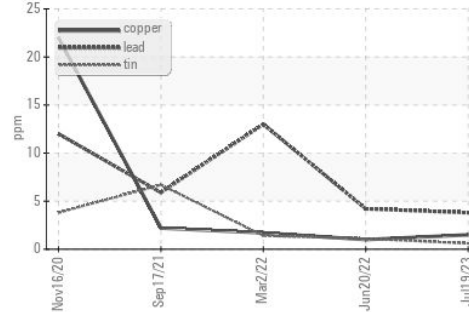
Ferrous Alloys



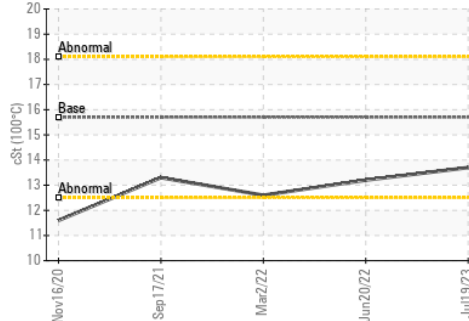
Viscosity @ 100°C



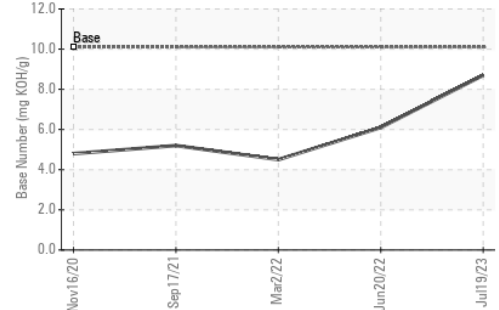
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0725708 **Received** : 20 Jul 2023
Lab Number : 05903666 **Diagnosed** : 24 Jul 2023
Unique Number : 10565022 **Diagnostician** : Wes Davis
Test Package : FLEET (Additional Tests: Glycol)

PGT Trucking Inc. - Corporate

US
 Contact: JAMES DELWICHE
 JDELWICHE@PGTTRUCKING.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: (724)987-1642

F: