



PROBLEM SUMMARY

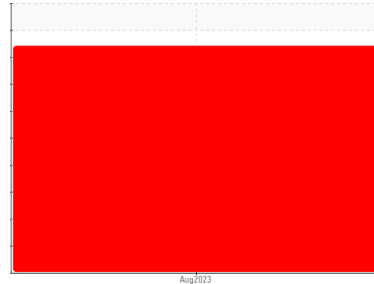
Sample Rating Trend

GLYCOL



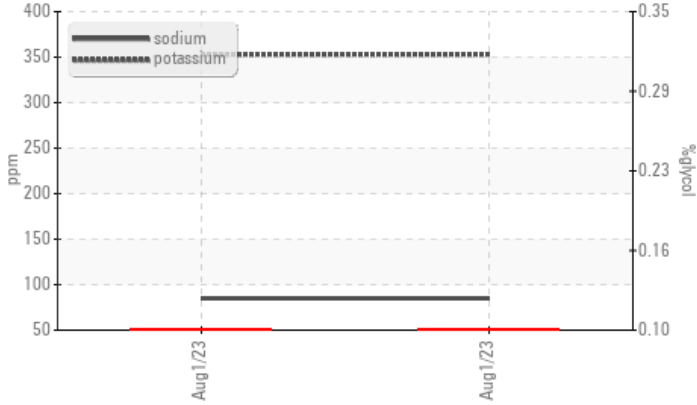
Area
Trenton
Machine Id
PETERBILT 6702

Component
Diesel Engine
Fluid
GIBRALTAR 15W/40 SUPER S-3 LX (11)



COMPONENT CONDITION SUMMARY

Glycol Contamination



RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Sodium	ppm	ASTM D5185m		▲ 85	---	---
Potassium	ppm	ASTM D5185m	>20	▲ 353	---	---
Glycol	%	*ASTM D2982		● 0.10	---	---

Customer Id: INTTRENJ
Sample No.: WC0830841
Lab Number: 05923205
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	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
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

GLYCOL



Area
Trenton
 Machine Id
PETERBILT 6702
 Component
Diesel Engine
 Fluid
GIBRALTAR 15W/40 SUPER S-3 LX (11)



DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Test for glycol is positive.

Fluid Condition

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		WC0830841	---	---
Sample Date	Client Info		01 Aug 2023	---	---
Machine Age	hrs	Client Info	2654	---	---
Oil Age	hrs	Client Info	150	---	---
Oil Changed	Client Info		Not Chngd	---	---
Sample Status			SEVERE	---	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >110	10	---	---
Chromium	ppm	ASTM D5185m >4	0	---	---
Nickel	ppm	ASTM D5185m >2	0	---	---
Titanium	ppm	ASTM D5185m	0	---	---
Silver	ppm	ASTM D5185m >2	<1	---	---
Aluminum	ppm	ASTM D5185m >25	1	---	---
Lead	ppm	ASTM D5185m >45	2	---	---
Copper	ppm	ASTM D5185m >85	<1	---	---
Tin	ppm	ASTM D5185m >4	0	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	---	---
Barium	ppm	ASTM D5185m	2	---	---
Molybdenum	ppm	ASTM D5185m 660	111	---	---
Manganese	ppm	ASTM D5185m	<1	---	---
Magnesium	ppm	ASTM D5185m 1000	585	---	---
Calcium	ppm	ASTM D5185m 1050	1501	---	---
Phosphorus	ppm	ASTM D5185m 1150	754	---	---
Zinc	ppm	ASTM D5185m 1270	1009	---	---
Sulfur	ppm	ASTM D5185m	2681	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	8	---	---
Sodium	ppm	ASTM D5185m	85	---	---
Potassium	ppm	ASTM D5185m >20	353	---	---
Glycol	%	*ASTM D2982	0.10	---	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0	---	---
Nitration	Abs/cm	*ASTM D7624 >20	10.0	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.3	---	---

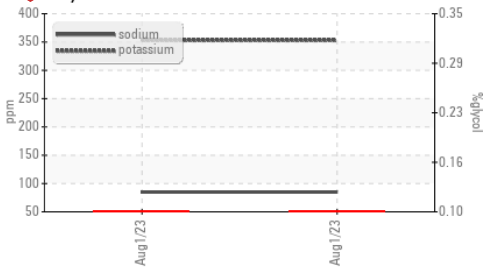
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	16.6	---	---
Base Number (BN)	mg KOH/g	ASTM D2896 10.1	6.7	---	---



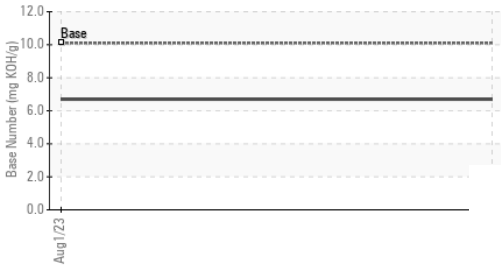
OIL ANALYSIS REPORT

Glycol Contamination



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	---	---

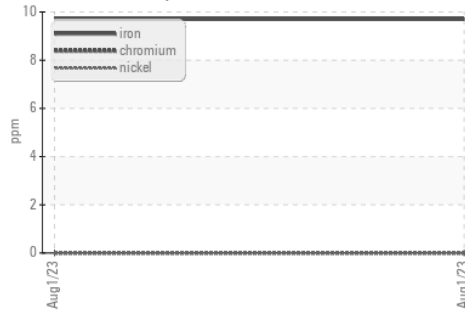
Base Number



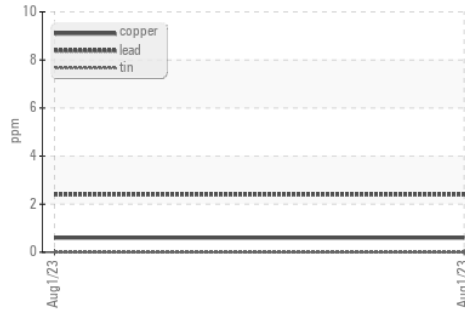
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.5	15.4	---	---

GRAPHS

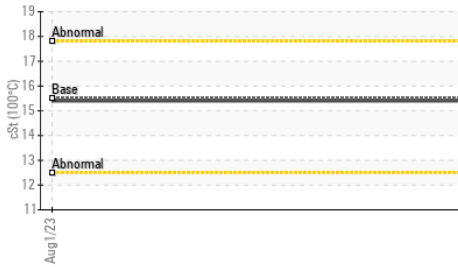
Ferrous Alloys



Non-ferrous Metals



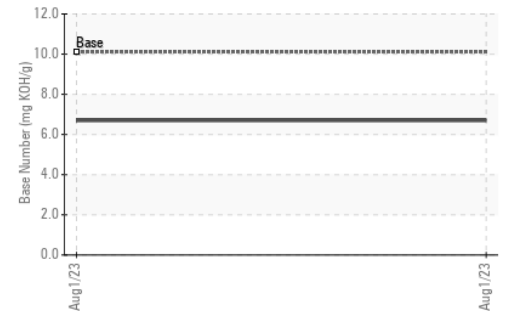
Viscosity @ 100°C



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0830841 **Received** : 14 Aug 2023
Lab Number : **05923205** **Diagnosed** : 15 Aug 2023
Unique Number : 10603152 **Diagnostician** : Jonathan Hester
Test Package : FLEET (Additional Tests: Glycol)

INTERSTATE WASTE-TRENTON
 500 BREUNIG AVENUE
 TRENTON, NJ
 US 08638
 Contact: Service Manager

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: