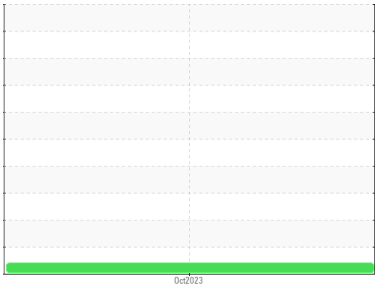
PROBLEM SUMMARY

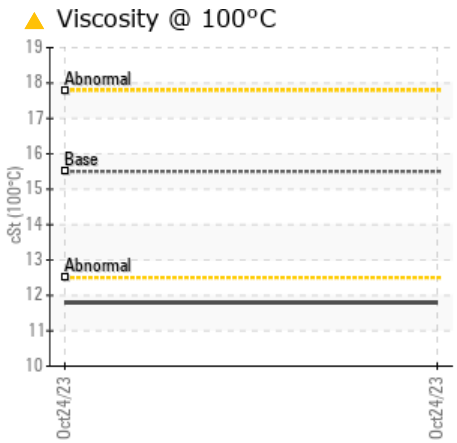
Sample Rating Trend

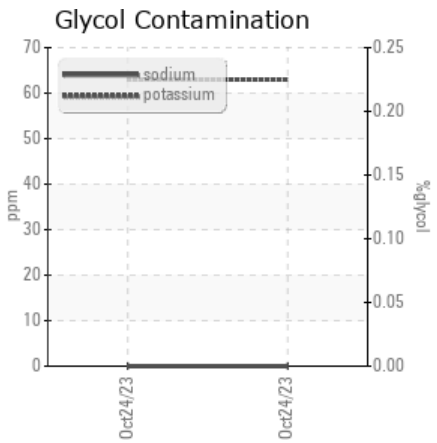


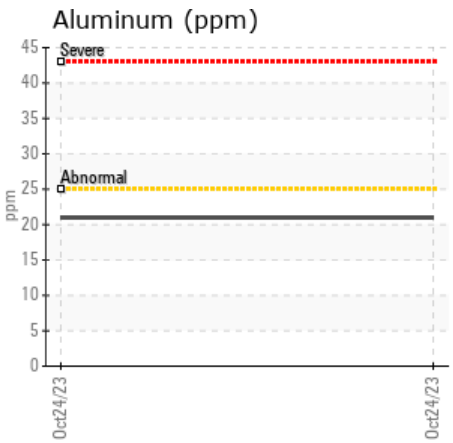
VISCOSITY

Area
Action Newark
Machine Id
PETERBILT 2502
Component
Diesel Engine
Fluid
GIBRALTAR 15W/40 SUPER S-3 LX (11)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ATTENTION**	---	---
Visc @ 100°C	cSt	ASTM D445	15.5	▲ **11.8**	---	---

Customer Id: INT110NEW
Sample No.: WC0831023
Lab Number: 05997301
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Sean Felton +1 919-379-4092
sfelton@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

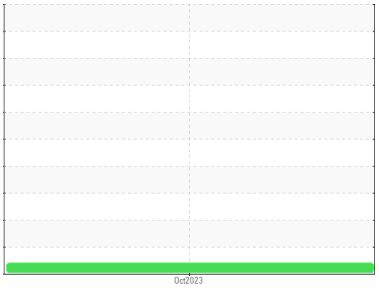
RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Area
Action Newark
Machine Id
PETERBILT 2502
Component
Diesel Engine
Fluid
GIBRALTAR 15W/40 SUPER S-3 LX (11)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Fluid Condition
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0831023**	---	---
Sample Date		Client Info		**24 Oct 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ATTENTION**	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Glycol		WC Method		**NEG**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	**73**	---	---
Chromium	ppm	ASTM D5185m	>4	**<1**	---	---
Nickel	ppm	ASTM D5185m	>2	**<1**	---	---
Titanium	ppm	ASTM D5185m		**0**	---	---
Silver	ppm	ASTM D5185m	>2	**0**	---	---
Aluminum	ppm	ASTM D5185m	>25	**21**	---	---
Lead	ppm	ASTM D5185m	>45	**<1**	---	---
Copper	ppm	ASTM D5185m	>85	**21**	---	---
Tin	ppm	ASTM D5185m	>4	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**<1**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**44**	---	---
Barium	ppm	ASTM D5185m		**<1**	---	---
Molybdenum	ppm	ASTM D5185m	66	**11**	---	---
Manganese	ppm	ASTM D5185m		**2**	---	---
Magnesium	ppm	ASTM D5185m	1000	**721**	---	---
Calcium	ppm	ASTM D5185m	1050	**1418**	---	---
Phosphorus	ppm	ASTM D5185m	1150	**646**	---	---
Zinc	ppm	ASTM D5185m	1270	**840**	---	---
Sulfur	ppm	ASTM D5185m		**3522**	---	---

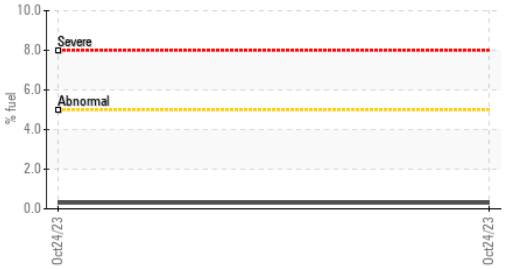
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	**10**	---	---
Sodium	ppm	ASTM D5185m		**0**	---	---
Potassium	ppm	ASTM D5185m	>20	**63**	---	---
Fuel	%	ASTM D3524	>5	**0.3**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.3**	---	---
Nitration	Abs/cm	*ASTM D7624	>20	**9.8**	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**22.0**	---	---

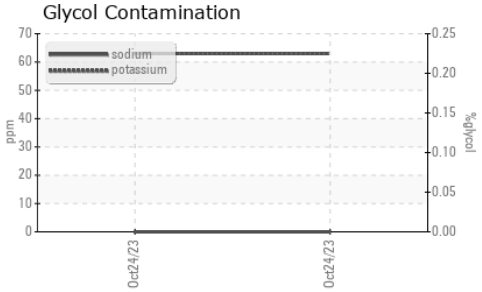
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**17.3**	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	**5.7**	---	---

OIL ANALYSIS REPORT

Fuel Dilution

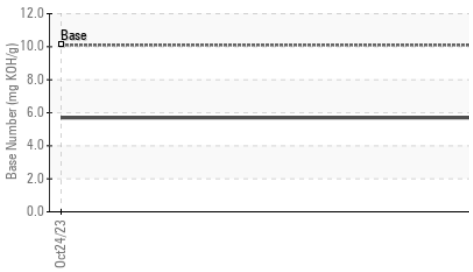


Glycol Contamination

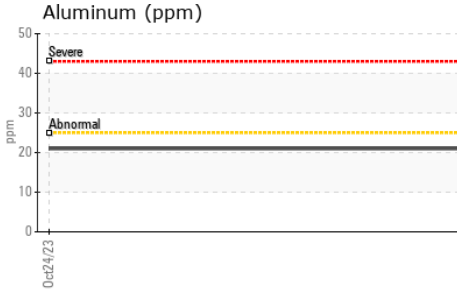


Aluminum (ppm)

Base Number



Aluminum (ppm)

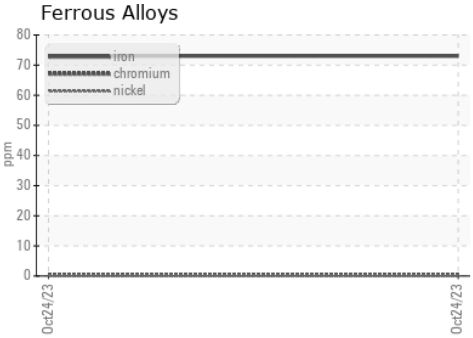


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*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**	---	---

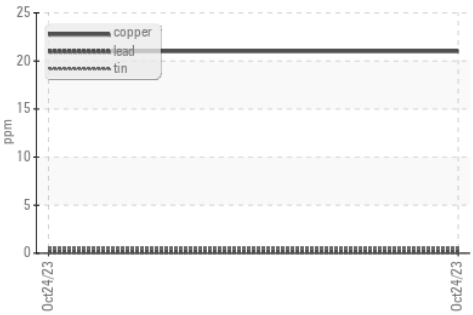
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.5	▲ **11.8**	---	---

GRAPHS

Ferrous Alloys

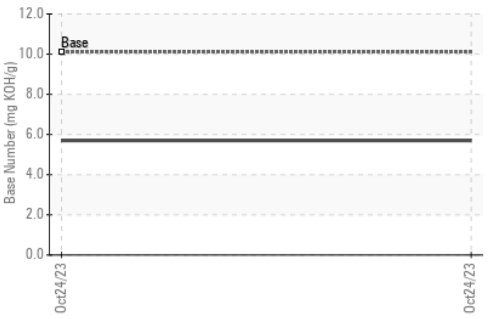


Non-ferrous Metals



▲ Viscosity @ 100°C

Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0831023 **Received** : 02 Nov 2023
Lab Number : 05997301 **Diagnosed** : 06 Nov 2023
Unique Number : 10725661 **Diagnostician** : Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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)

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T:
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Report Id: INT110NEW [WUSCAR] 05997301 (Generated: 11/06/2023 16:51:32) Rev: 1

Submitted By: Richie Keegan