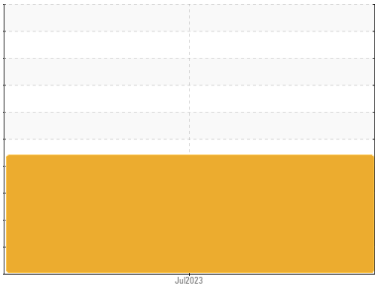
PROBLEM SUMMARY

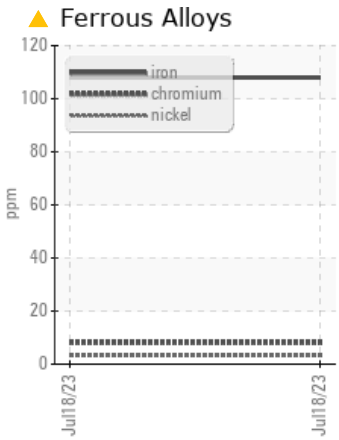
Sample Rating Trend

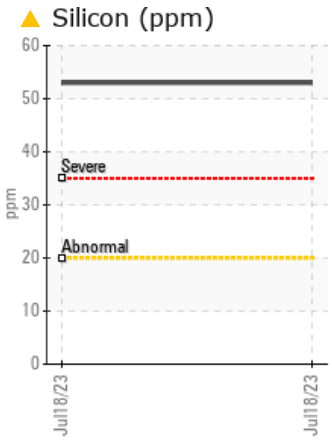


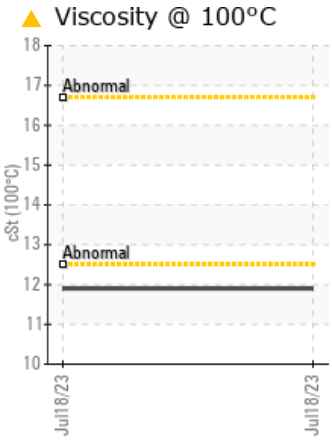
DIRT

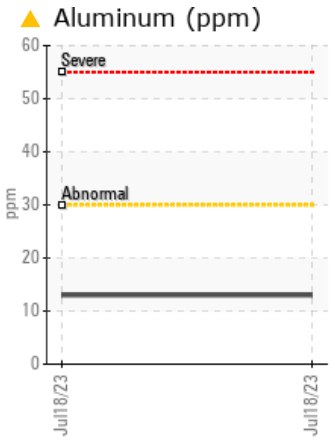
Machine Id
95042
Component
Diesel Engine
Fluid
AG 15W40 (10 GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	---	---
Iron	ppm	ASTM D5185m	>80	▲ **108**	---	---
Chromium	ppm	ASTM D5185m	>5	▲ **8**	---	---
Aluminum	ppm	ASTM D5185m	>30	▲ **13**	---	---
Silicon	ppm	ASTM D5185m	>20	▲ **53**	---	---
Visc @ 100°C	cSt	ASTM D445		▲ **11.9**	---	---

Customer Id: SBTYOR
Sample No.: SBP0002517
Lab Number: 05905091
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

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

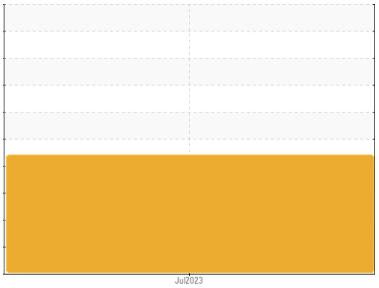
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Check Dirt Access	---	---	?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Machine Id
95042
Component
Diesel Engine
Fluid
AG 15W40 (10 GAL)

DIAGNOSIS

Recommendation
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.

Wear
Cylinder, crank, or cam shaft wear is indicated.

Contamination
Fuel content negligible. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

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		**SBP0002517**	---	---
Sample Date		Client Info		**18 Jul 2023**	---	---
Machine Age	mls	Client Info		**188650**	---	---
Oil Age	mls	Client Info		**12000**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ABNORMAL**	---	---

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	▲ **108**	---	---
Chromium	ppm	ASTM D5185m	>5	▲ **8**	---	---
Nickel	ppm	ASTM D5185m	>2	**3**	---	---
Titanium	ppm	ASTM D5185m		**<1**	---	---
Silver	ppm	ASTM D5185m	>3	**0**	---	---
Aluminum	ppm	ASTM D5185m	>30	▲ **13**	---	---
Lead	ppm	ASTM D5185m	>30	**2**	---	---
Copper	ppm	ASTM D5185m	>150	**4**	---	---
Tin	ppm	ASTM D5185m	>5	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	---	---
Barium	ppm	ASTM D5185m		**0**	---	---
Molybdenum	ppm	ASTM D5185m		**72**	---	---
Manganese	ppm	ASTM D5185m		**2**	---	---
Magnesium	ppm	ASTM D5185m		**1167**	---	---
Calcium	ppm	ASTM D5185m		**1311**	---	---
Phosphorus	ppm	ASTM D5185m		**1196**	---	---
Zinc	ppm	ASTM D5185m		**1472**	---	---
Sulfur	ppm	ASTM D5185m		**3710**	---	---

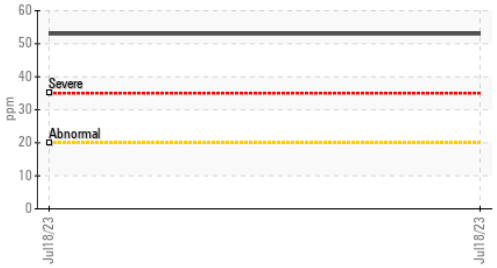
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	▲ **53**	---	---
Sodium	ppm	ASTM D5185m		**17**	---	---
Potassium	ppm	ASTM D5185m	>20	**10**	---	---
Fuel	%	ASTM D3524	>5	**0.2**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.8**	---	---
Nitration	Abs/cm	*ASTM D7624	>20	**10.4**	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**22.9**	---	---

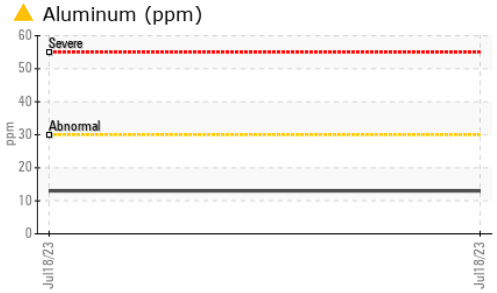
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**18.9**	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		**7.1**	---	---

OIL ANALYSIS REPORT

Silicon (ppm)

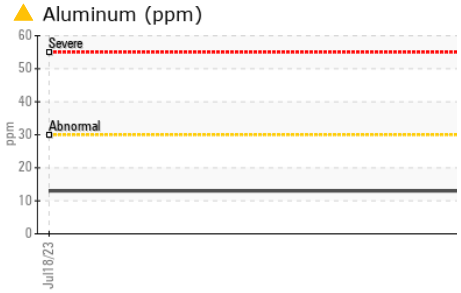


Aluminum (ppm)

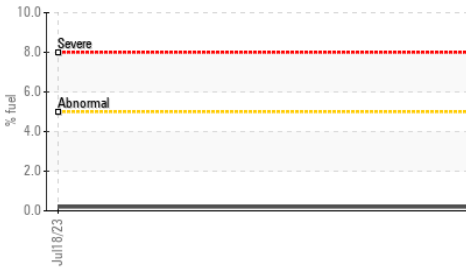


Fuel Dilution

Aluminum (ppm)



Fuel Dilution

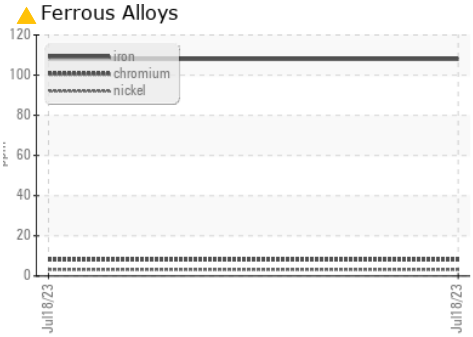


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar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

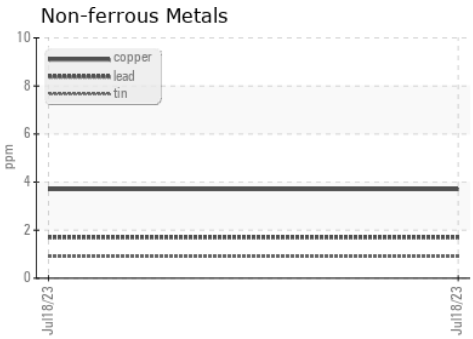
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		**11.9**	---	---

GRAPHS

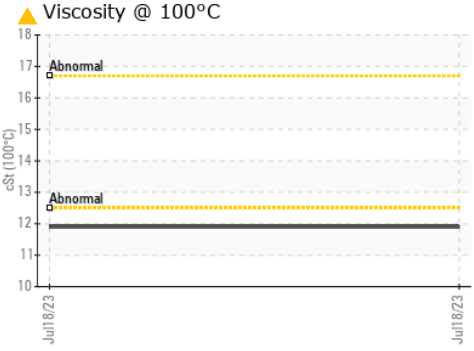
Ferrous Alloys



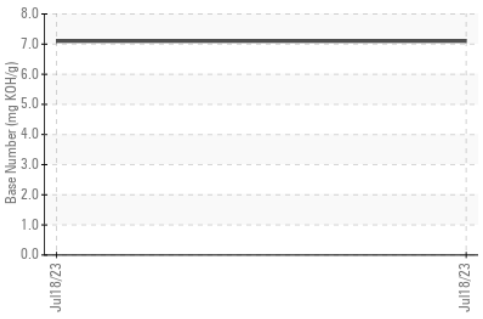
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0002517 **Received** : 24 Jul 2023
Lab Number : 05905091 **Diagnosed** : 26 Jul 2023
Unique Number : 10566447 **Diagnostician** : Don Baldridge
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)

Sapp Bros. Fleet - York Location

,
US
Contact: Service Manager

T:
F: