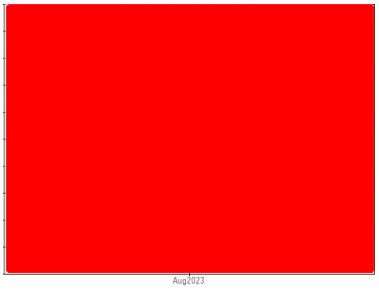
PROBLEM SUMMARY

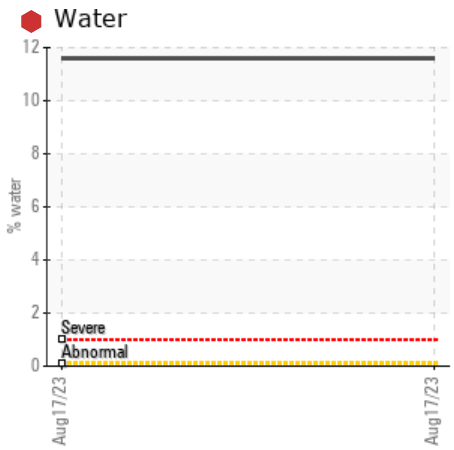
Sample Rating Trend

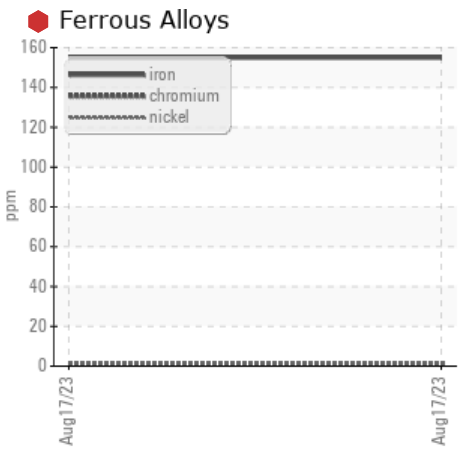


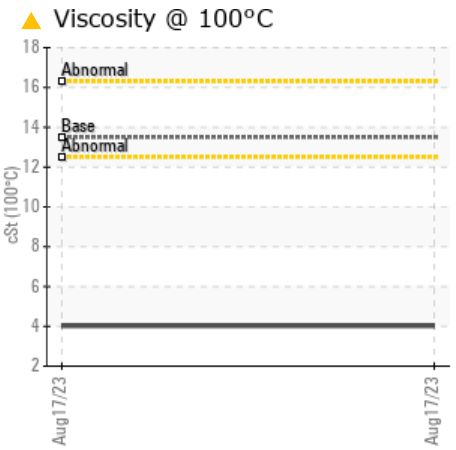
WEAR

Machine Id
WAUKESHA 2 WAUKESHA 1197 - INJ 2
Component
Natural Gas Engine
Fluid
MOBIL PEGASUS 805 (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	---	---
Iron	ppm	ASTM D5185m	>50	**155**	---	---
Water	%	ASTM D6304	>0.1	**11.6**	---	---
ppm Water	ppm	ASTM D6304	>1000	**116000**	---	---
Appearance	scalar	*Visual	NORML	**MILKY**	---	---
Emulsified Water	scalar	*Visual	>0.1	**0.2%**	---	---
Visc @ 100°C	cSt	ASTM D445	13.5	**4.02**	---	---

Customer Id: ENTLAPTX
Sample No.: RP0033557
Lab Number: 05934413
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

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

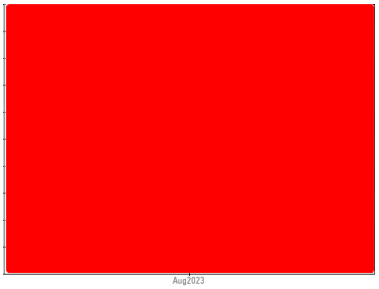
RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Change Filter	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
WAUKESHA 2 WAUKESHA 1197 - INJ 2
Component
Natural Gas Engine
Fluid
MOBIL PEGASUS 805 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

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

Contamination
There is a high concentration of water present in the oil. Test for glycol is negative.

Fluid Condition
Water is present in the oil is lowering the viscosity. The BN level is low. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**RP0033557**	---	---
Sample Date		Client Info		**17 Aug 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**SEVERE**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**155**	---	---
Chromium	ppm	ASTM D5185m	>4	**2**	---	---
Nickel	ppm	ASTM D5185m	>2	**1**	---	---
Titanium	ppm	ASTM D5185m		**<1**	---	---
Silver	ppm	ASTM D5185m	>3	**<1**	---	---
Aluminum	ppm	ASTM D5185m	>9	**7**	---	---
Lead	ppm	ASTM D5185m	>30	**5**	---	---
Copper	ppm	ASTM D5185m	>35	**7**	---	---
Tin	ppm	ASTM D5185m	>4	**2**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**<1**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	80	**53**	---	---
Barium	ppm	ASTM D5185m		**<1**	---	---
Molybdenum	ppm	ASTM D5185m		**13**	---	---
Manganese	ppm	ASTM D5185m		**2**	---	---
Magnesium	ppm	ASTM D5185m		**96**	---	---
Calcium	ppm	ASTM D5185m	1020	**1577**	---	---
Phosphorus	ppm	ASTM D5185m	220	**438**	---	---
Zinc	ppm	ASTM D5185m	230	**565**	---	---

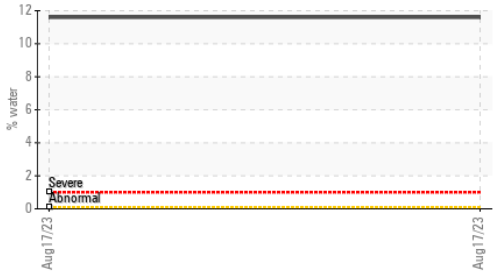
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	**9**	---	---
Sodium	ppm	ASTM D5185m		**16**	---	---
Potassium	ppm	ASTM D5185m	>20	**2**	---	---
Water	%	ASTM D6304	>0.1	**11.6**	---	---
ppm Water	ppm	ASTM D6304	>1000	**116000**	---	---
Glycol	%	*ASTM D2982		**0.0**	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0.5**	---	---
Nitration	Abs/cm	*ASTM D7624	>20	**47.7**	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**0.0**	---	---

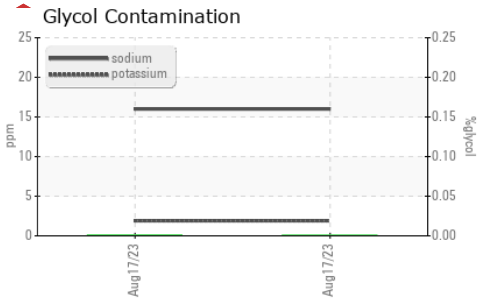
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**33.4**	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	6.4	**2.82**	---	---

OIL ANALYSIS REPORT

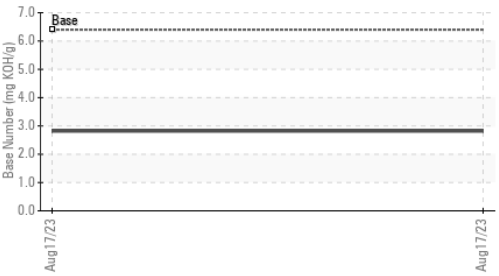
Water



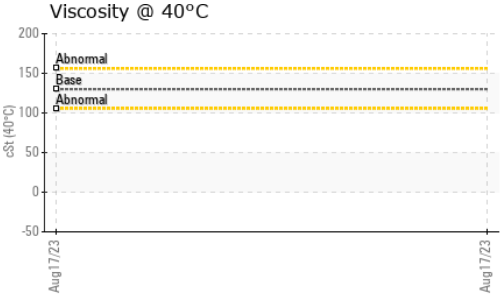
Glycol Contamination



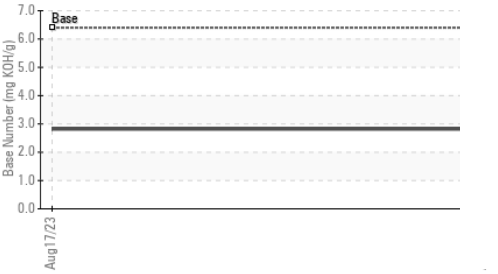
Base Number



Viscosity @ 40°C



Base Number

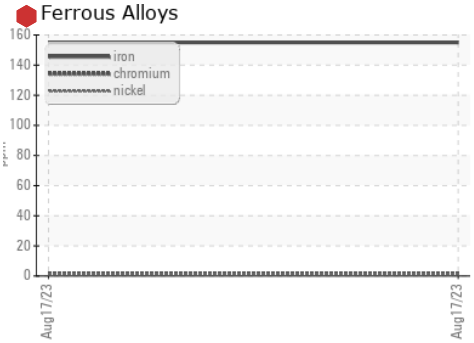


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	▲ **MILKY**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.1	▲ **0.2%**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

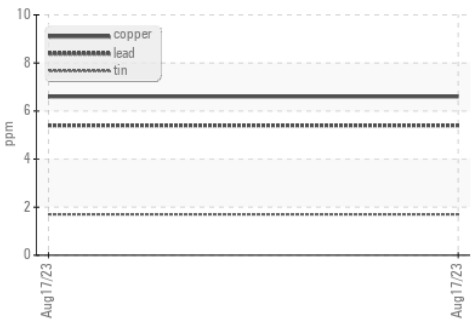
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	13.5	▲ **4.02**	---	---

GRAPHS

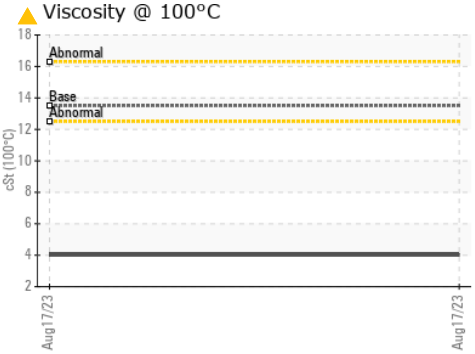
Ferrous Alloys



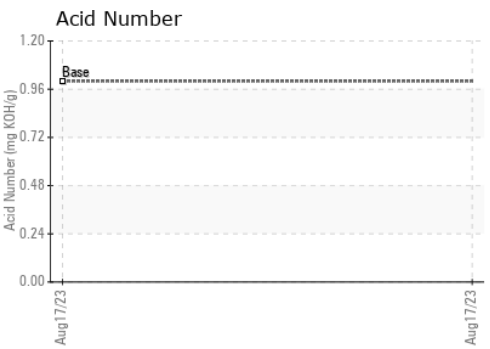
Non-ferrous Metals



Viscosity @ 100°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0033557 **Received** : 24 Aug 2023
Lab Number : 05934413 **Diagnosed** : 01 Sep 2023
Unique Number : 10619684 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: FT-IR, Glycol, KV100, TBN)

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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