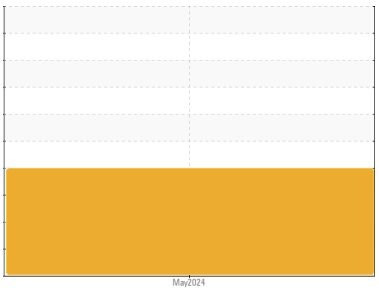
OIL DIAGNOSTICS

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Machine Id
WL247370
Component
Diesel Engine
Fluid
{not provided} (--- 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. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear
All component wear rates are normal.

▲ Contamination
Fuel content negligible. There is a high concentration of water present in the oil.

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		**PCA0110077**	---	---
Sample Date		Client Info		**24 May 2024**	---	---
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	>100	**2**	---	---
Chromium	ppm	ASTM D5185m	>20	**0**	---	---
Nickel	ppm	ASTM D5185m	>2	**0**	---	---
Titanium	ppm	ASTM D5185m		**0**	---	---
Silver	ppm	ASTM D5185m	>2	**<1**	---	---
Aluminum	ppm	ASTM D5185m	>25	**2**	---	---
Lead	ppm	ASTM D5185m	>40	**<1**	---	---
Copper	ppm	ASTM D5185m	>330	**28**	---	---
Tin	ppm	ASTM D5185m	>15	**1**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**<1**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**81**	---	---
Barium	ppm	ASTM D5185m		**0**	---	---
Molybdenum	ppm	ASTM D5185m		**79**	---	---
Manganese	ppm	ASTM D5185m		**2**	---	---
Magnesium	ppm	ASTM D5185m		**15**	---	---
Calcium	ppm	ASTM D5185m		**2121**	---	---
Phosphorus	ppm	ASTM D5185m		**1041**	---	---
Zinc	ppm	ASTM D5185m		**1180**	---	---
Sulfur	ppm	ASTM D5185m		**4622**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**12**	---	---
Sodium	ppm	ASTM D5185m		**2**	---	---
Potassium	ppm	ASTM D5185m	>20	**2**	---	---
Fuel	%	ASTM D3524	>6.0	**0.3**	---	---
Water	%	ASTM D6304	>0.2	▲ **1.05**	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ **10500**	---	---
Glycol	%	*ASTM D2982		**NEG**	---	---

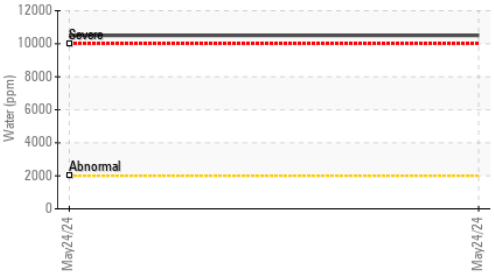
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	**0.1**	---	---
Nitration	Abs/cm	*ASTM D7624	>20	**9.2**	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	**12.9**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**12.5**	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		**10.23**	---	---

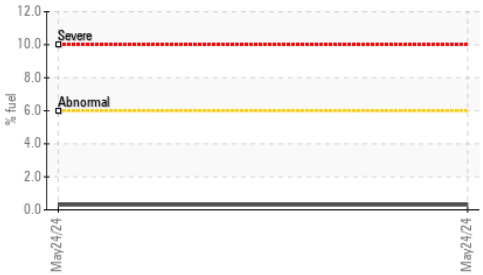
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

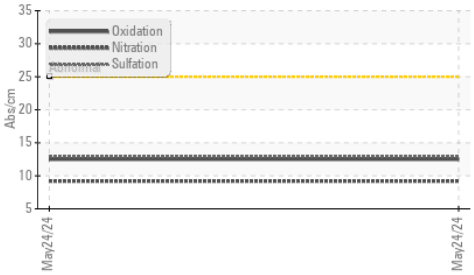
Water (KF)



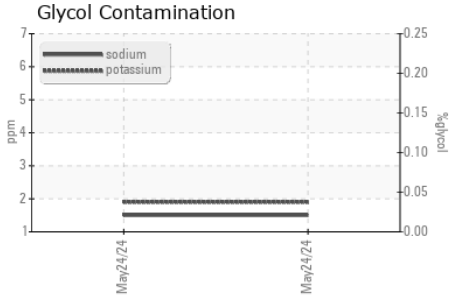
Fuel Dilution



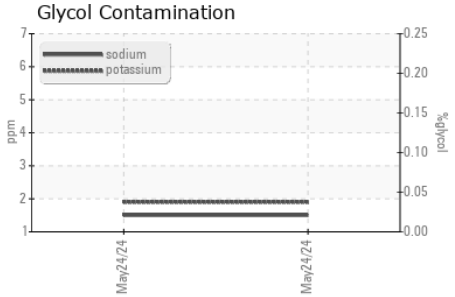
FT-IR (Direct Trend)



Glycol Contamination



Glycol Contamination

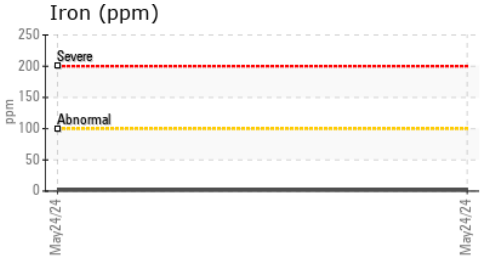


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**LIGHT**	---	---
Sand/Dirt	scalar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

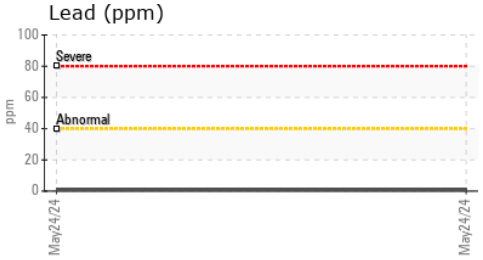
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		**8.6**	---	---

GRAPHS

Iron (ppm)



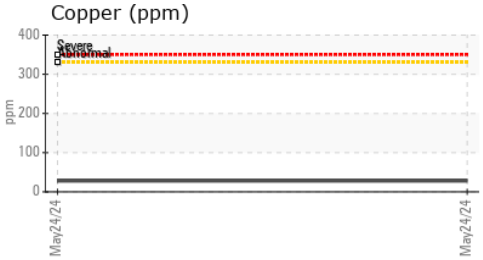
Lead (ppm)



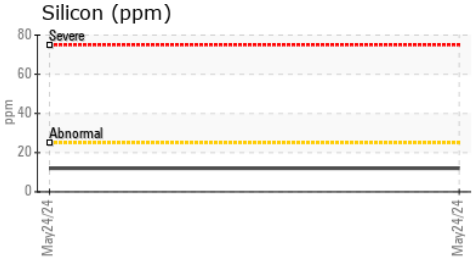
Aluminum (ppm)

Chromium (ppm)

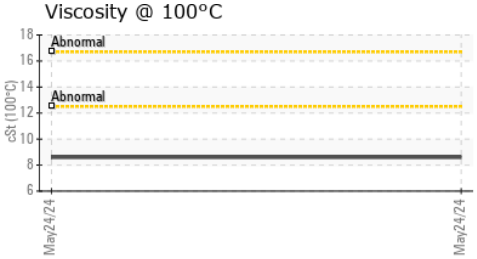
Copper (ppm)



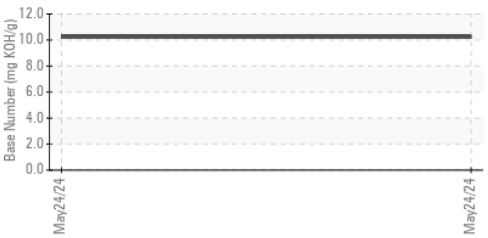
Silicon (ppm)



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0110077
Lab Number : 06195626
Unique Number : 11057749
Test Package : MOB 2 (Additional Tests: FuelDilution, Glycol, KF, PercentFuel)

Received : 30 May 2024
Tested : 05 Jun 2024
Diagnosed : 05 Jun 2024 - Jonathan Hester

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)

WIN Waste Innovations - Shop # - Taunton
565 WINTHROP ST
TAUNTON, MA
US 02780
Contact: Dave Wilson
dwilson1@win-waste.com
T:
F:

Report Id: WINTAU [WUSCAR] 06195626 (Generated: 06/05/2024 13:46:51) Rev: 1

Submitted By: MATT MANOLI