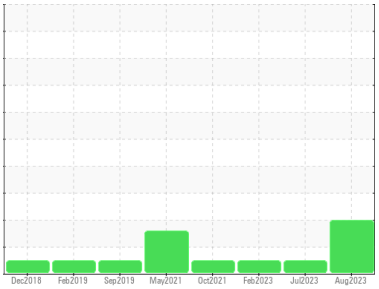
PROBLEM SUMMARY

Sample Rating Trend

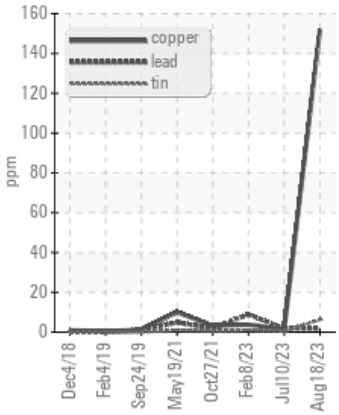


WEAR

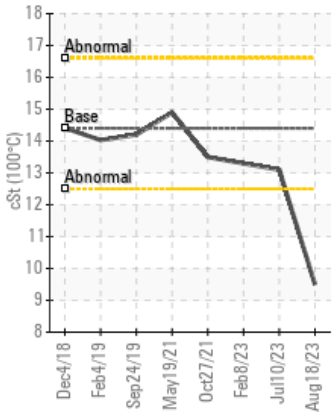
Machine Id
FSP134332 (S/N FT9432)
Component
Diesel Engine
Fluid
EXXON 15W40 (32 QTS)

COMPONENT CONDITION SUMMARY

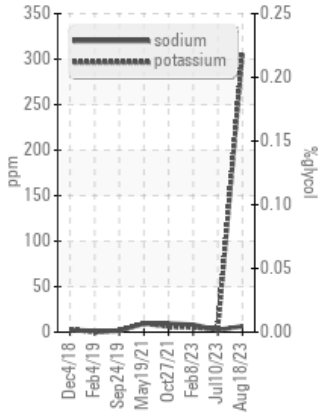
Non-ferrous Metals



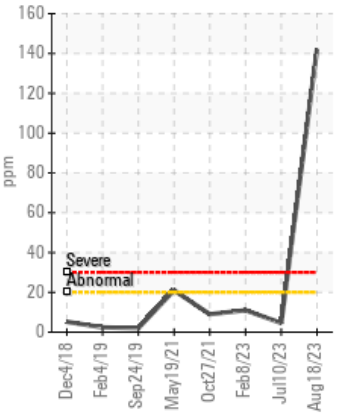
Viscosity @ 100°C



Glycol Contamination



Aluminum (ppm)



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	NORMAL	NORMAL
Copper	ppm	ASTM D5185m	>125	▲ **152**	2	4
Tin	ppm	ASTM D5185m	>4	▲ **6**	<1	<1
Visc @ 100°C	cSt	ASTM D445	14.4	▲ **9.5**	13.1	13.3

Customer Id: FREORL
Sample No.: WC0787772
Lab Number: 05937734
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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

10 Jul 2023 Diag: Wes Davis

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report

08 Feb 2023 Diag: Jonathan Hester

NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report

27 Oct 2021 Diag: Wes Davis

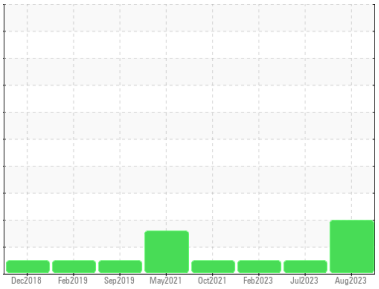
NORMAL

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
FSP134332 (S/N FT9432)
Component
Diesel Engine
Fluid
EXXON 15W40 (32 QTS)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
Bearing wear is indicated.

Contamination
Fuel content negligible. 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.

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		**WC0787772**	WC0787790	WC0717921
Sample Date		Client Info		**18 Aug 2023**	10 Jul 2023	08 Feb 2023
Machine Age	mls	Client Info		**0**	311537	30103
Oil Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	Changed	Changed
Sample Status				**ABNORMAL**	NORMAL	NORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>130	**35**	27	70
Chromium	ppm	ASTM D5185m	>10	**2**	<1	3
Nickel	ppm	ASTM D5185m	>4	**<1**	<1	1
Titanium	ppm	ASTM D5185m	>2	**0**	0	0
Silver	ppm	ASTM D5185m	>2	**<1**	<1	0
Aluminum	ppm	ASTM D5185m	>20	**142**	5	11
Lead	ppm	ASTM D5185m	>20	**2**	2	9
Copper	ppm	ASTM D5185m	>125	▲ **152**	2	4
Tin	ppm	ASTM D5185m	>4	▲ **6**	<1	<1
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**40**	2	10
Barium	ppm	ASTM D5185m		**0**	<1	0
Molybdenum	ppm	ASTM D5185m		**41**	75	68
Manganese	ppm	ASTM D5185m		**3**	<1	<1
Magnesium	ppm	ASTM D5185m		**544**	1043	831
Calcium	ppm	ASTM D5185m		**1831**	1302	1259
Phosphorus	ppm	ASTM D5185m		**740**	1151	905
Zinc	ppm	ASTM D5185m		**942**	1410	1155
Sulfur	ppm	ASTM D5185m		**2720**	3598	3278

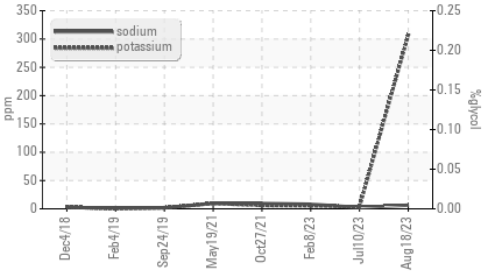
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**7**	6	11
Sodium	ppm	ASTM D5185m		**6**	2	8
Potassium	ppm	ASTM D5185m	>20	**307**	3	5
Fuel	%	ASTM D3524	>3.0	**0.2**	<1.0	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	**0.2**	0.6	1.5
Nitration	Abs/cm	*ASTM D7624	>20	**7.3**	11.4	15.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	**22.4**	23.1	31.9

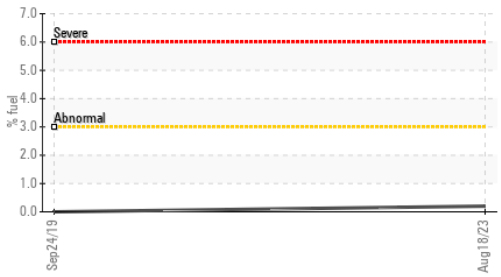
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**20.7**	20.4	31.5
Base Number (BN)	mg KOH/g	ASTM D2896		**8.6**	7.9	5.6

OIL ANALYSIS REPORT

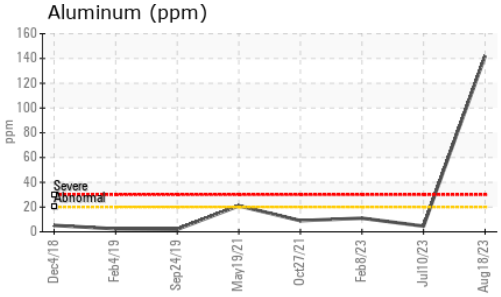
Glycol Contamination



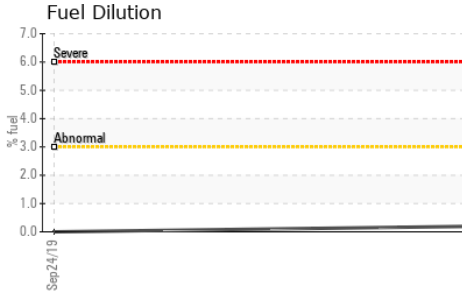
Fuel Dilution



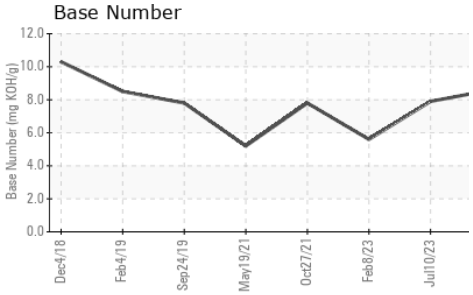
Aluminum (ppm)



Fuel Dilution



Base Number

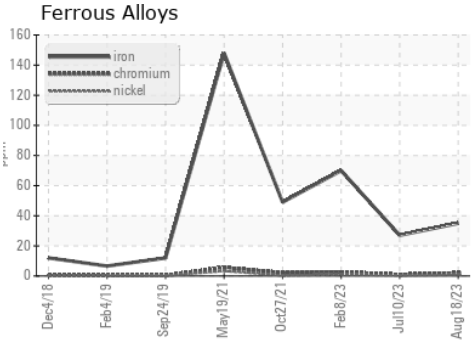


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

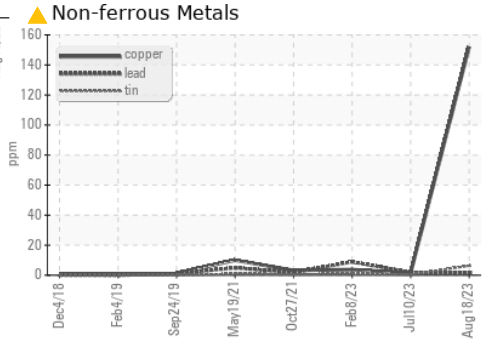
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	▲ **9.5**	13.1	13.3

GRAPHS

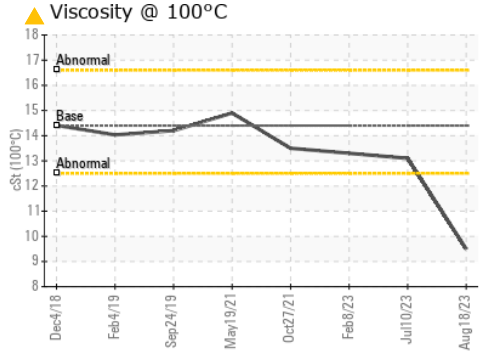
Ferrous Alloys



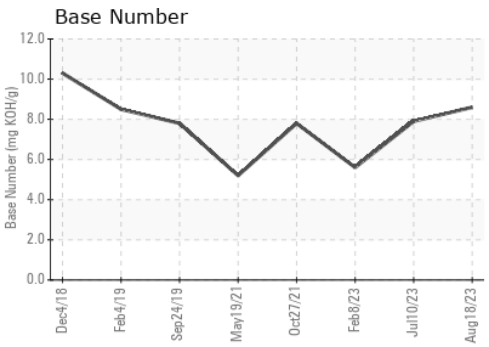
▲ Non-ferrous Metals



▲ Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0787772 **Received** : 29 Aug 2023
Lab Number : 05937734 **Diagnosed** : 30 Aug 2023
Unique Number : 10623005 **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)

FRESHPOINT
8801 EXCHANGE DRVIE
ORLANDO, FL
US 32809
Contact: CRAIG EVANS
evans_craig@sbcglobal.net
T:
F: