



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**NEWFLYER 2339**  
Component  
**Diesel Engine**  
Fluid  
**NOT GIVEN (28 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

### WEAR

All component wear rates are normal.

### CONTAMINATION

There is no indication of any contamination in the oil.

### FLUID CONDITION

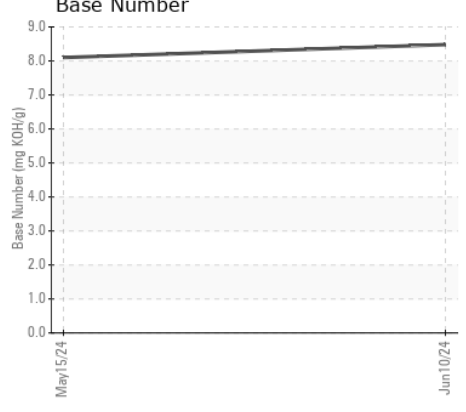
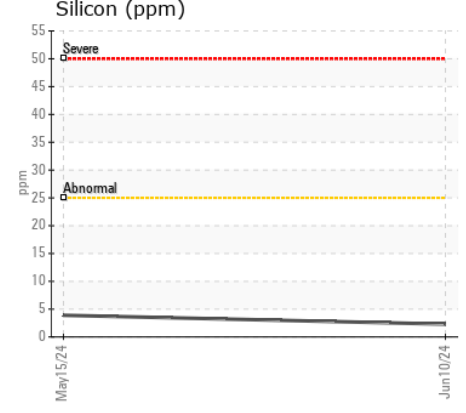
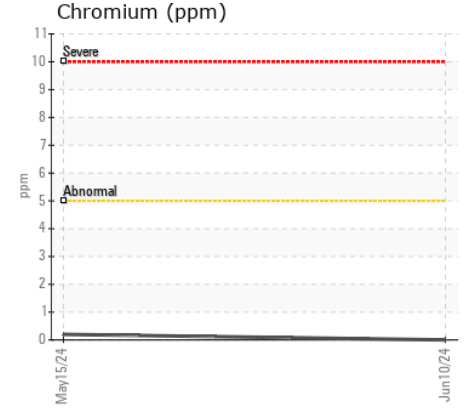
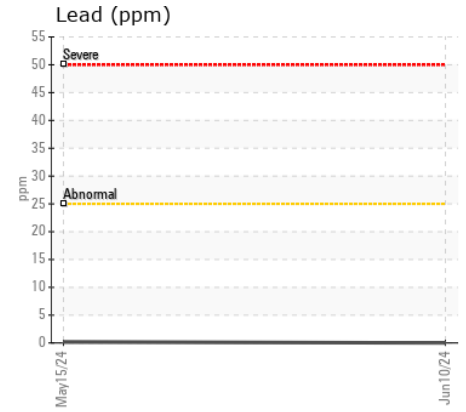
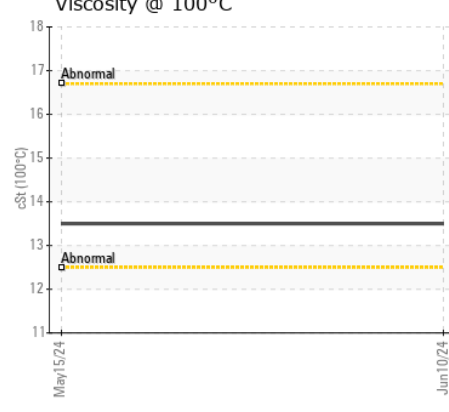
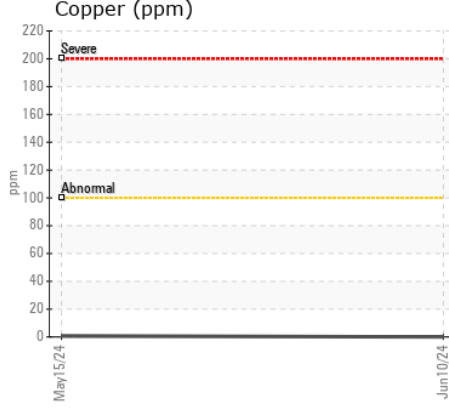
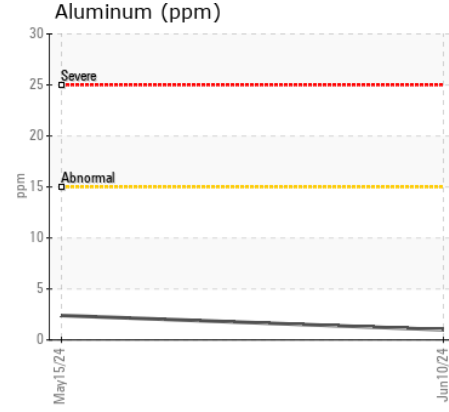
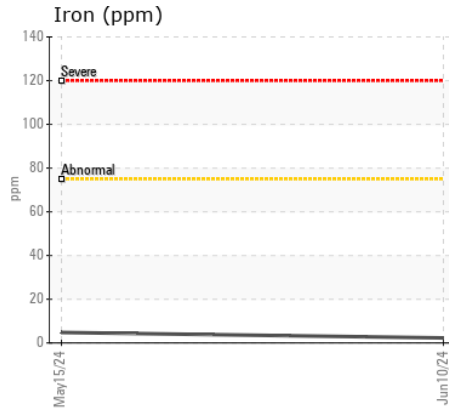
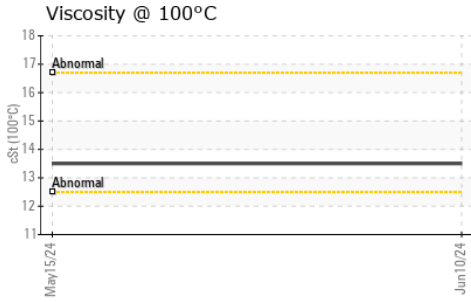
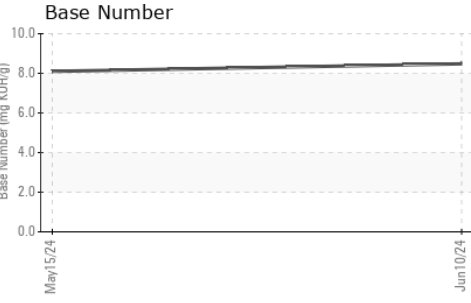
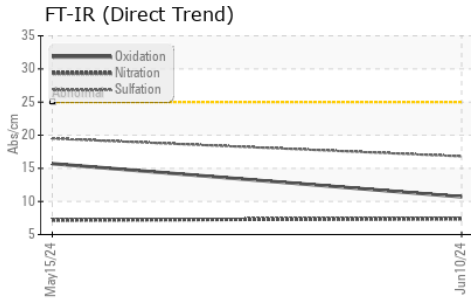
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LP0001889</b>	LP0001974	---
Sample Date		Client Info		<b>10 Jun 2024</b>	15 May 2024	---
Machine Age	mls	Client Info		<b>77219</b>	71513	---
Oil Age	mls	Client Info		<b>77219</b>	71513	---
Filter Age	mls	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

Iron	ppm	ASTM D5185m	>75	<b>2</b>	5	---
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>15	<b>1</b>	2	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>100	<b>0</b>	<1	---
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

Silicon	ppm	ASTM D5185m	>25	<b>2</b>	4	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>6	<b>0.1</b>	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.4</b>	7.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>16.8</b>	19.5	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

Sodium	ppm	ASTM D5185m		<b>2</b>	4	---
Boron	ppm	ASTM D5185m		<b>16</b>	17	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>25</b>	27	---
Manganese	ppm	ASTM D5185m		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m		<b>45</b>	40	---
Calcium	ppm	ASTM D5185m		<b>2564</b>	2182	---
Phosphorus	ppm	ASTM D5185m		<b>952</b>	945	---
Zinc	ppm	ASTM D5185m		<b>1208</b>	1061	---
Sulfur	ppm	ASTM D5185m		<b>4358</b>	3665	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>10.7</b>	15.7	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.48</b>	8.1	---
Visc @ 100°C	cSt	ASTM D445		<b>13.5</b>	13.5	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LP0001889  
**Lab Number** : 06210886  
**Unique Number** : 11083750  
**Test Package** : MOB 2

**Received** : 14 Jun 2024  
**Tested** : 17 Jun 2024  
**Diagnosed** : 17 Jun 2024 - Wes Davis

**GREATER PORTLAND TRANSIT DISTRICT**  
 114 VALLEY STREET  
 PORTLAND, ME  
 US 04102-3039  
 Contact: JOHN JACQUES  
 jjacques@gpmetro.org

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)

T:  
F: