



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**NEW HOLLAND U80C L-2 (S/N NEC714005)**  
 Component  
**Front Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL 10W40 (8 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0922842</b>	WC0772786	---
Sample Date		Client Info		<b>25 Jun 2024</b>	06 Mar 2024	---
Machine Age	hrs	Client Info		<b>3079</b>	2969	---
Oil Age	hrs	Client Info		<b>110</b>	521	---
Filter Age	hrs	Client Info		<b>110</b>	521	---
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	---
Filter Changed		Client Info		<b>Not Changed</b>	N/A	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>21</b>	64	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>8</b>	▲ 28	---
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	---
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	4	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

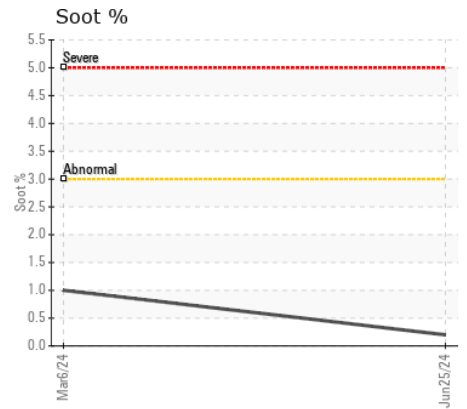
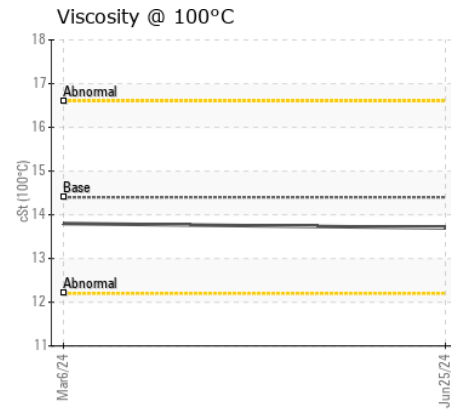
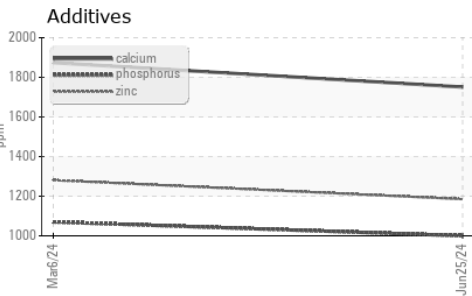
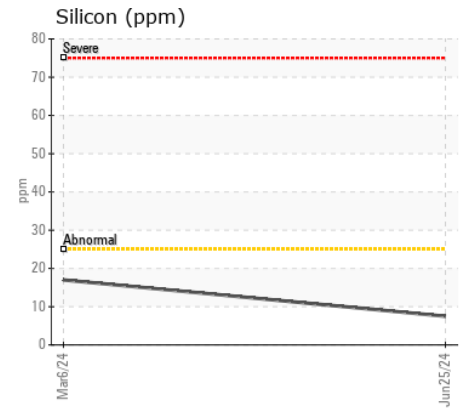
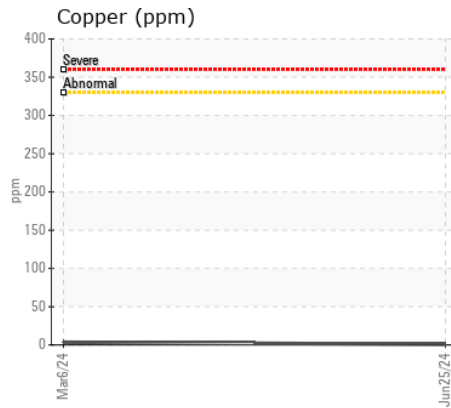
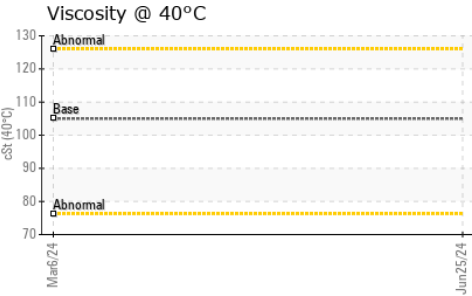
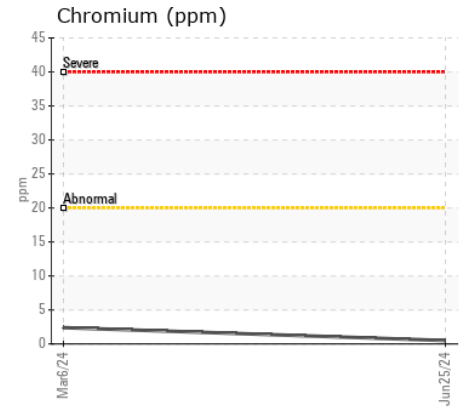
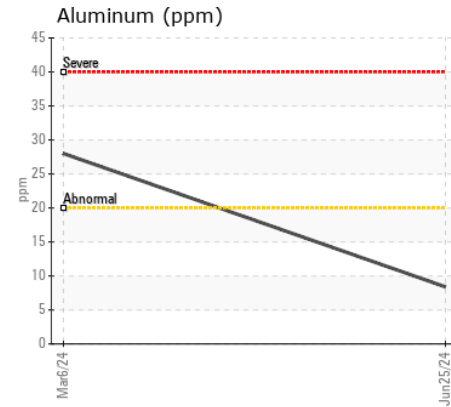
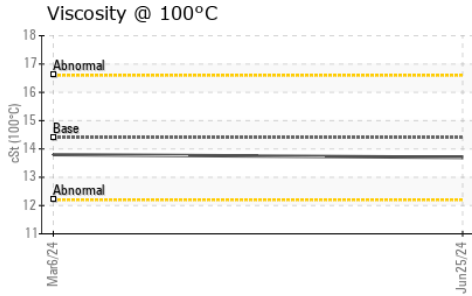
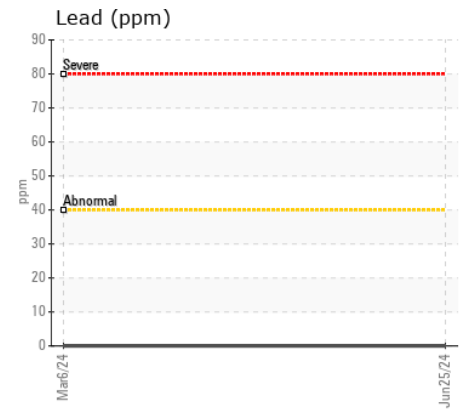
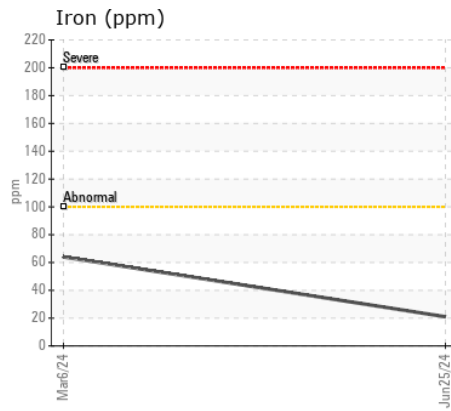
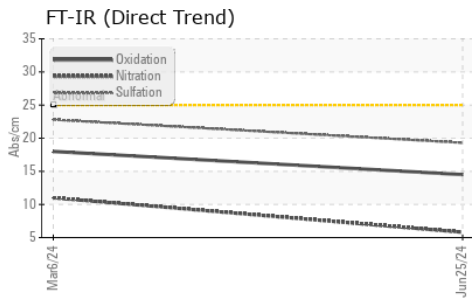
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>8</b>	17	---
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	18	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	0.9	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	0.0	---
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	1	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.8</b>	11.0	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.3</b>	22.8	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>LIGHT</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	---

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>3</b>	7	---
Boron	ppm	ASTM D5185(m)	250	<b>94</b>	23	---
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	100	<b>61</b>	64	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185(m)	450	<b>388</b>	464	---
Calcium	ppm	ASTM D5185(m)	3000	<b>1751</b>	1874	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1000</b>	1070	---
Zinc	ppm	ASTM D5185(m)	1350	<b>1185</b>	1281	---
Sulfur	ppm	ASTM D5185(m)	4250	<b>2830</b>	2941	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.5</b>	18.0	---
Visc @ 40°C	cSt	ASTM D7279(m)	105	<b>93.5</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.7</b>	13.8	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	<b>148</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0922842 **Received** : 05 Jul 2024  
**Lab Number** : **02645734** **Tested** : 05 Jul 2024  
**Unique Number** : 5803273 **Diagnosed** : 05 Jul 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

**MIDDLESEX COUNTY ROAD DEPARTMENT**  
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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.