



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**Navistar 8424012**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL 1 SAE 10W30 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0030998</b>	---	---
Sample Date		Client Info		<b>13 Mar 2024</b>	---	---
Machine Age	mls	Client Info		<b>25369</b>	---	---
Oil Age	mls	Client Info		<b>25369</b>	---	---
Filter Age	mls	Client Info		<b>25369</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

### WEAR

Metal levels are typical for a components first oil change.

Iron	ppm	ASTM D5185m	>100	<b>63</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>26</b>	---	---
Lead	ppm	ASTM D5185m	>40	<b>4</b>	---	---
Copper	ppm	ASTM D5185m	>330	<b>20</b>	---	---
Tin	ppm	ASTM D5185m	>15	<b>2</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

### CONTAMINATION

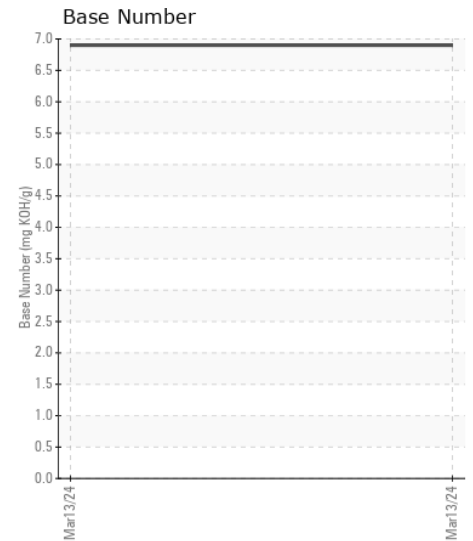
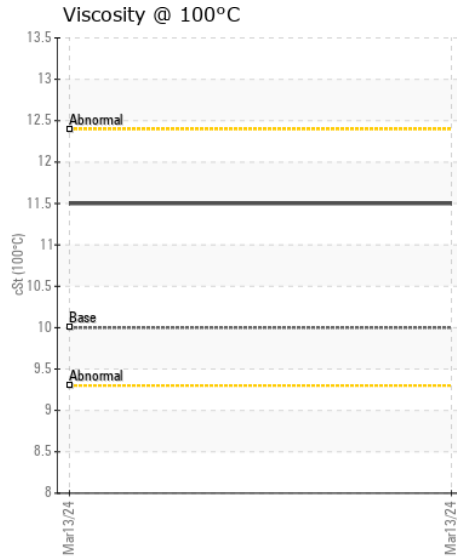
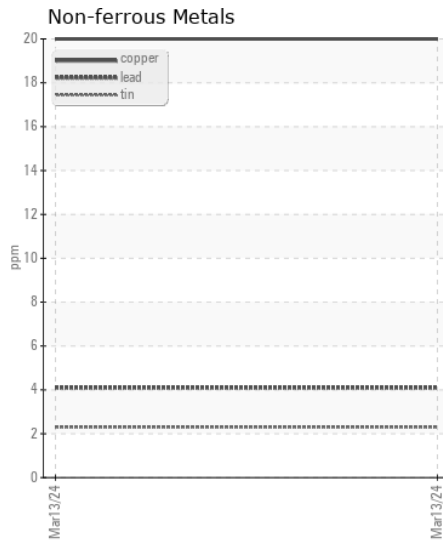
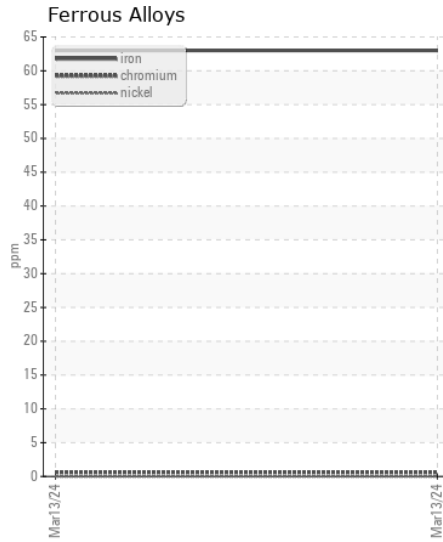
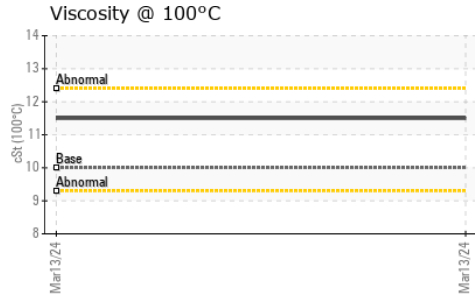
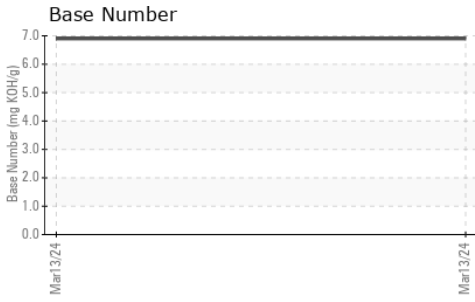
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>38</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>65</b>	---	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.4</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.9</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

### 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.

Sodium	ppm	ASTM D5185m		<b>4</b>	---	---
Boron	ppm	ASTM D5185m		<b>53</b>	---	---
Barium	ppm	ASTM D5185m		<b>4</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>62</b>	---	---
Manganese	ppm	ASTM D5185m		<b>5</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>479</b>	---	---
Calcium	ppm	ASTM D5185m		<b>1910</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>1054</b>	---	---
Zinc	ppm	ASTM D5185m		<b>1321</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>3736</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.4</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.9</b>	---	---
Visc @ 100°C	cSt	ASTM D445	10	<b>11.5</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0030998  
**Lab Number** : 06123400  
**Unique Number** : 10937551  
**Test Package** : FLEET

**Received** : 20 Mar 2024  
**Tested** : 21 Mar 2024  
**Diagnosed** : 21 Mar 2024 - Wes Davis

**IDEALEASE OF ATLANTA - FULTON**  
 4675 BAKERS FERRY ROAD  
 ATLANTA, GA  
 US 30331

Contact: DAVID JOHNS  
 davidjohns@idealease.com

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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