



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

Machine Id  
**8917809**  
 Component  
**Diesel Engine**  
 Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

### WEAR

Cylinder, crank, or cam shaft wear is indicated.

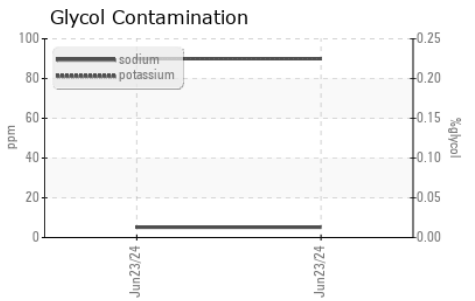
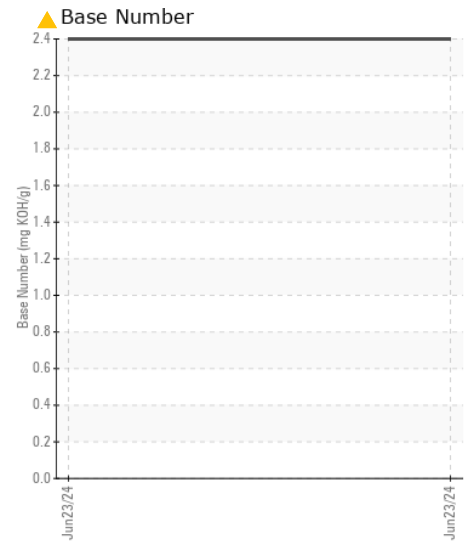
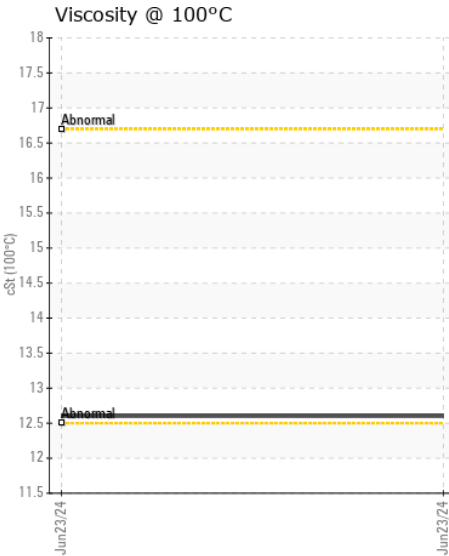
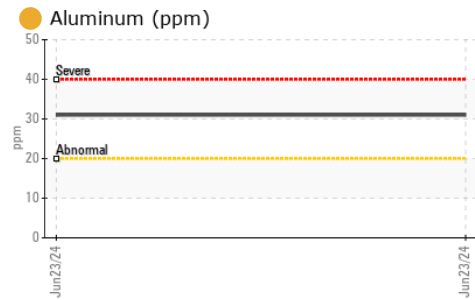
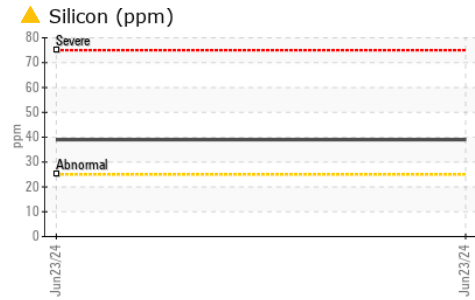
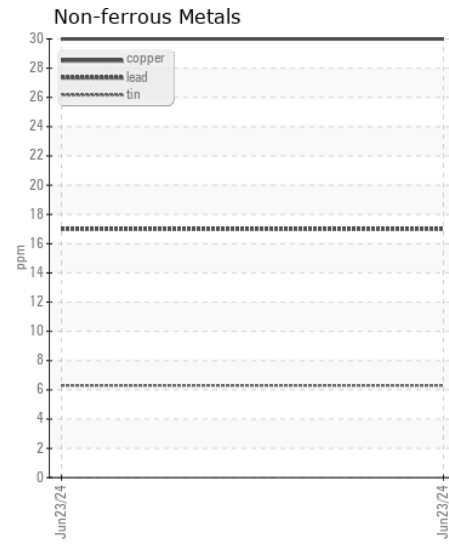
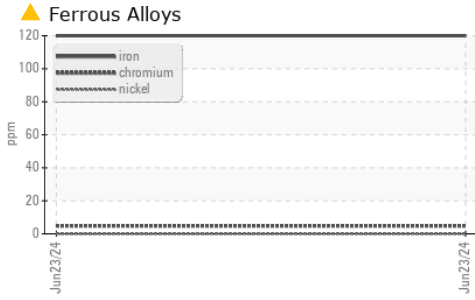
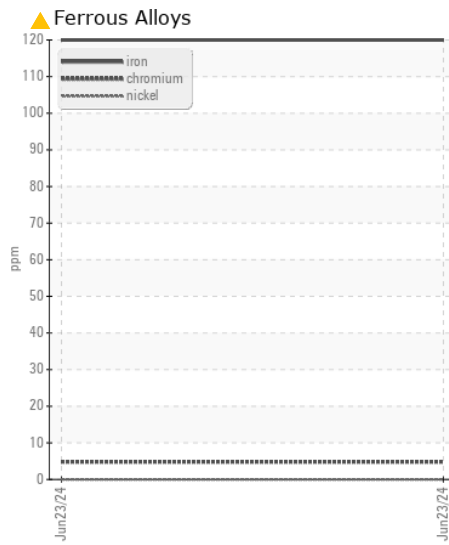
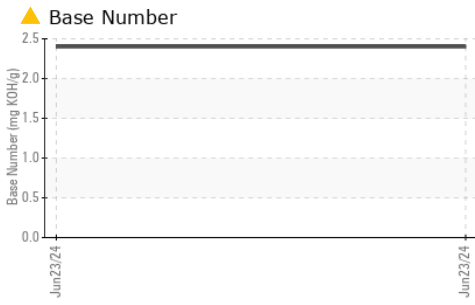
### CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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 BN level is low. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL06217786</b>	---	---
Sample Date		Client Info		<b>23 Jun 2024</b>	---	---
Machine Age	mls	Client Info		<b>0</b>	---	---
Oil Age	mls	Client Info		<b>0</b>	---	---
Filter Age	mls	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---
Iron	ppm	ASTM D5185m	>100	<b>▲ 120</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>5</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>● 31</b>	---	---
Lead	ppm	ASTM D5185m	>40	<b>17</b>	---	---
Copper	ppm	ASTM D5185m	>330	<b>30</b>	---	---
Tin	ppm	ASTM D5185m	>15	<b>6</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Silicon	ppm	ASTM D5185m	>25	<b>▲ 39</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>90</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>0.7</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>16.3</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>32.4</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>	---	---
Sodium	ppm	ASTM D5185m		<b>5</b>	---	---
Boron	ppm	ASTM D5185m		<b>19</b>	---	---
Barium	ppm	ASTM D5185m		<b>5</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>66</b>	---	---
Manganese	ppm	ASTM D5185m		<b>8</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>454</b>	---	---
Calcium	ppm	ASTM D5185m		<b>1936</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>1011</b>	---	---
Zinc	ppm	ASTM D5185m		<b>1298</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>2984</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>36.8</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>▲ 2.4</b>	---	---
Visc @ 100°C	cSt	ASTM D445		<b>12.6</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : IL06217786

**Lab Number** : 06217786

**Unique Number** : 11095983

**Test Package** : FLEET

**Received** : 24 Jun 2024

**Tested** : 25 Jun 2024

**Diagnosed** : 25 Jun 2024 - Don Baldrige

**IDEALASE-NORCROSS**

4571 NORTH BUFORD HWY

NORCROSS, GA

US 30071-2808

Contact: RICK MARKS

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: (770)300-0614