



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

Machine Id  
**NN874499**  
Component  
**Diesel Engine**  
Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

### WEAR

All component wear rates are normal.

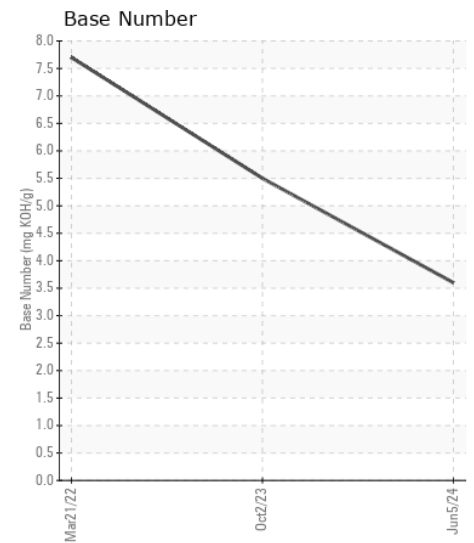
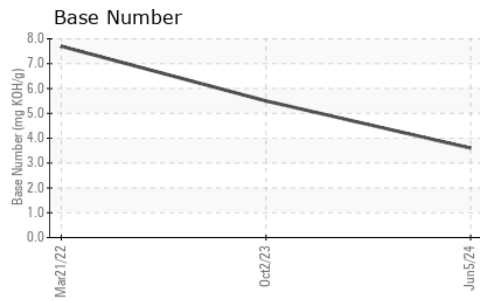
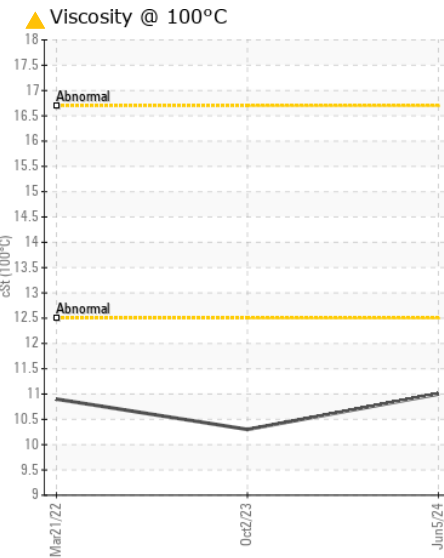
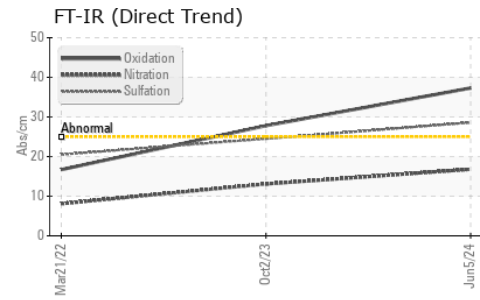
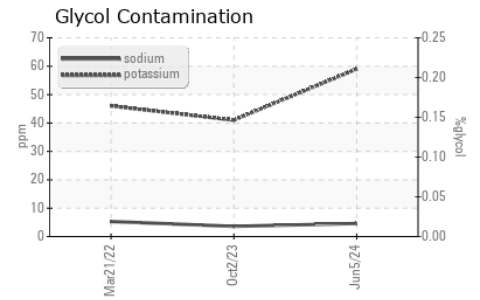
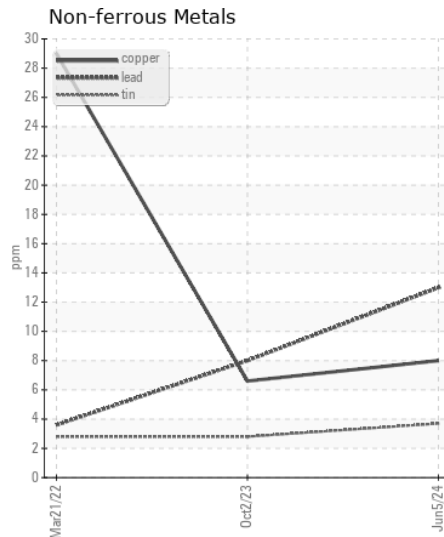
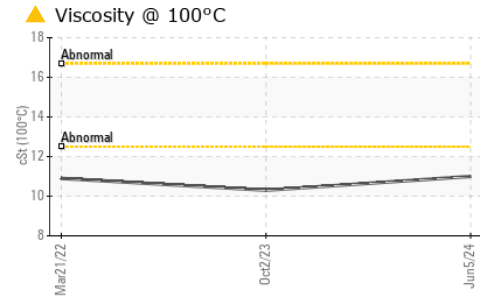
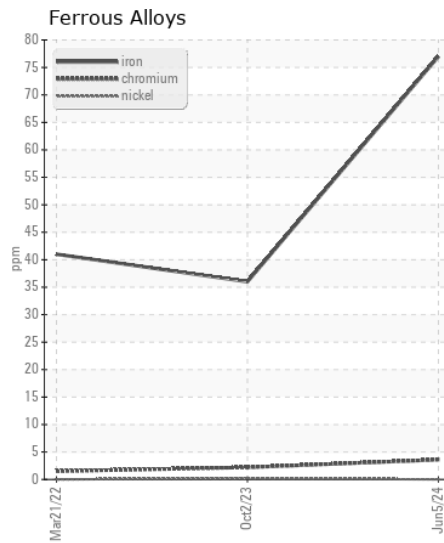
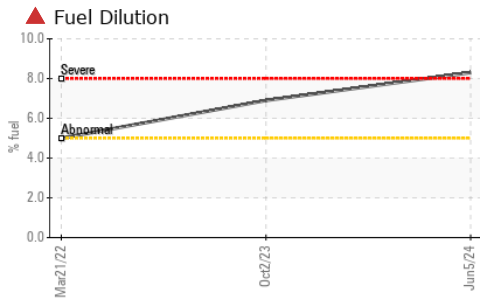
### CONTAMINATION

There is a high amount of fuel present in the oil. 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

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0035788</b>	IL06009302	IL05509355
Sample Date		Client Info		<b>05 Jun 2024</b>	02 Oct 2023	21 Mar 2022
Machine Age	hrs	Client Info		<b>25115</b>	19802	4695
Oil Age	hrs	Client Info		<b>0</b>	19802	500
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>SEVERE</b>	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	<b>77</b>	36	41
Chromium	ppm	ASTM D5185m	>20	<b>4</b>	2	2
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>24</b>	15	13
Lead	ppm	ASTM D5185m	>40	<b>13</b>	8	4
Copper	ppm	ASTM D5185m	>330	<b>8</b>	7	29
Tin	ppm	ASTM D5185m	>15	<b>4</b>	3	3
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	<b>15</b>	10	39
Potassium	ppm	ASTM D5185m	>20	<b>59</b>	41	46
Fuel	%	ASTM D3524	>5	<b>8.3</b>	6.9	5.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>16.8</b>	13.1	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>28.6</b>	24.5	20.5
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>5</b>	4	5
Boron	ppm	ASTM D5185m		<b>23</b>	25	85
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>47</b>	40	56
Manganese	ppm	ASTM D5185m		<b>2</b>	1	4
Magnesium	ppm	ASTM D5185m		<b>501</b>	451	403
Calcium	ppm	ASTM D5185m		<b>1733</b>	1471	1578
Phosphorus	ppm	ASTM D5185m		<b>755</b>	664	968
Zinc	ppm	ASTM D5185m		<b>921</b>	819	1147
Sulfur	ppm	ASTM D5185m		<b>2537</b>	2080	2490
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>37.3</b>	27.8	16.7
Base Number (BN)	mg KOH/g	ASTM D2896		<b>3.6</b>	5.5	7.7
Visc @ 100°C	cSt	ASTM D445		<b>11.0</b>	10.3	10.9



Certificate L2367

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

Sample No. : IL0035788

Lab Number : 06223234

Unique Number : 11101431

Test Package : FLEET ( Additional Tests: PercentFuel )

Received : 28 Jun 2024

Tested : 02 Jul 2024

Diagnosed : 02 Jul 2024 - Don Baldrige

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)

IDEALRELEASE OF ATLANTA - FULTON

4675 BAKERS FERRY ROAD

ATLANTA, GA

US 30331

Contact: DAVID JOHNS

davidjohns@idealease.com

T: (404)699-5571

F: (404)699-7420