



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

Machine Id  
**6112341**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0031046</b>	IL05908659	IL05847788
Sample Date		Client Info		<b>11 Apr 2024</b>	24 Jul 2023	27 Apr 2023
Machine Age	mls	Client Info		<b>131427</b>	104055	96721
Oil Age	mls	Client Info		<b>0</b>	20000	20000
Filter Age	mls	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>ABNORMAL</b>	NORMAL	ABNORMAL

### WEAR

The aluminum level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>45</b>	31	▲ 107
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>▲ 33</b>	10	16
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>1</b>	<1	5
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
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

### CONTAMINATION

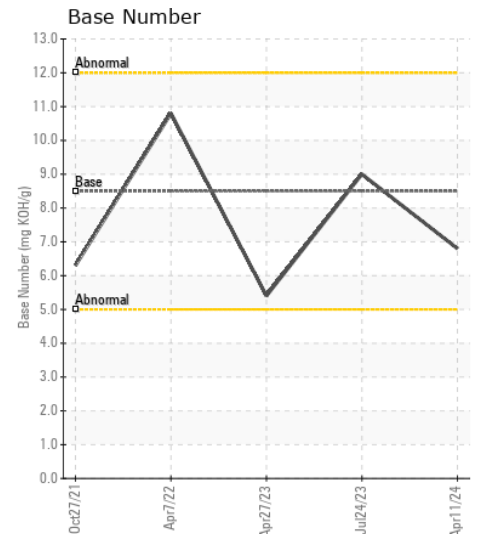
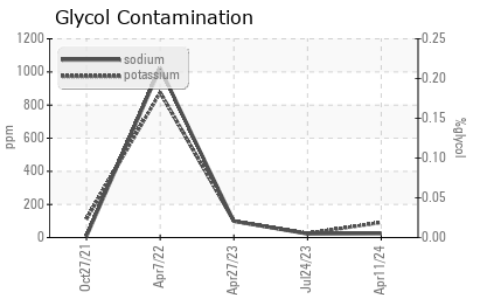
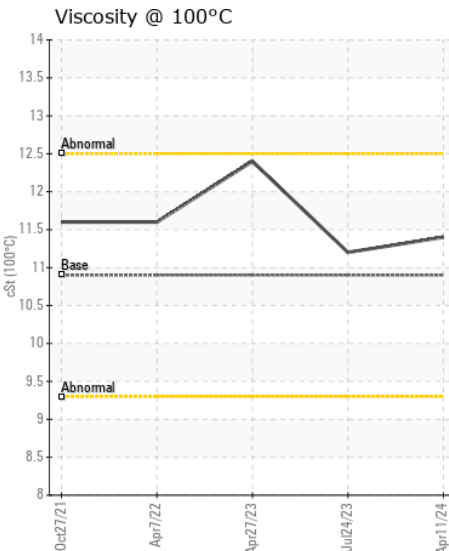
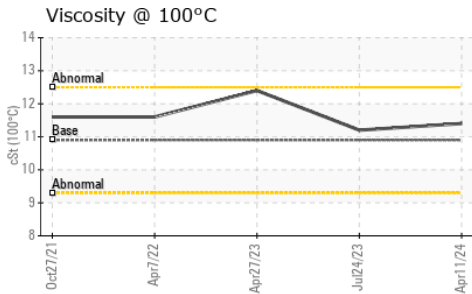
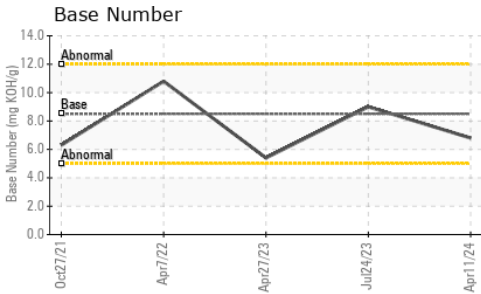
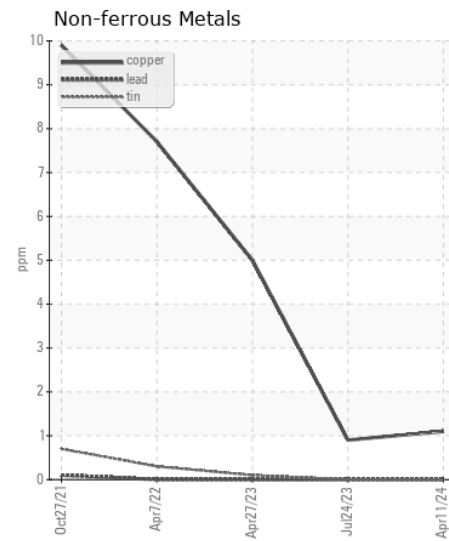
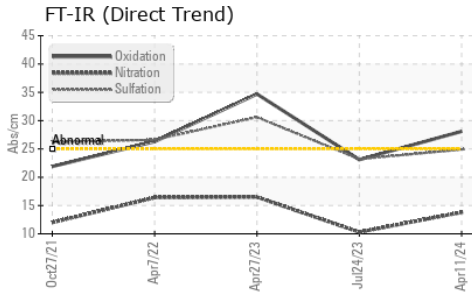
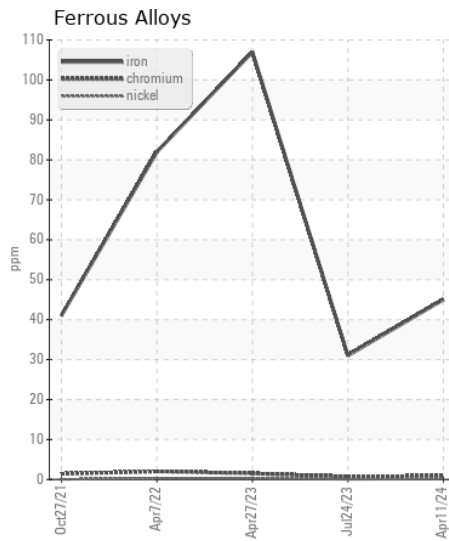
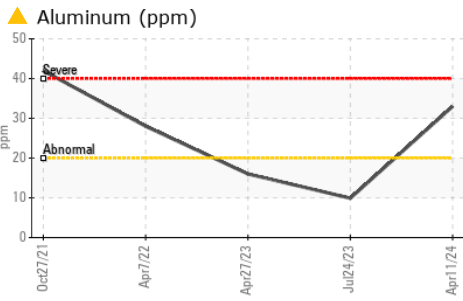
Sodium and/or potassium levels are high. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	6	10
Potassium	ppm	ASTM D5185m	>20	<b>▲ 91</b>	25	● 99
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	*ASTM D2982		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	0.4	1
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.8</b>	10.3	16.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.9</b>	23.2	30.6
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

### 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>24</b>	22	● 99
Boron	ppm	ASTM D5185m	250	<b>34</b>	37	26
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>44</b>	51	65
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m	450	<b>501</b>	575	634
Calcium	ppm	ASTM D5185m	3000	<b>1702</b>	1864	1971
Phosphorus	ppm	ASTM D5185m	1150	<b>747</b>	833	884
Zinc	ppm	ASTM D5185m	1350	<b>860</b>	1025	1130
Sulfur	ppm	ASTM D5185m	4250	<b>2495</b>	3146	2817
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>28.1</b>	23.1	34.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>6.8</b>	9.0	5.4
Visc @ 100°C	cSt	ASTM D445	10.9	<b>11.4</b>	11.2	12.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0031046 **Received** : 17 Apr 2024  
**Lab Number** : 06151585 **Tested** : 23 Apr 2024  
**Unique Number** : 10981663 **Diagnosed** : 23 Apr 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: Glycol )

**IDEALISE 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)

T: (404)699-5571  
 F: (404)699-7420