



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

Machine Id  
**3315821**  
Component  
**Diesel Engine**  
Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0034900</b>	IL06019326	IL05908655
Sample Date		Client Info		<b>09 Jan 2024</b>	27 Sep 2023	06 Jul 2023
Machine Age	mls	Client Info		<b>37308</b>	31256	24380
Oil Age	mls	Client Info		<b>0</b>	20000	24380
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>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>17</b>	19	91
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	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	3	12
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	8
Copper	ppm	ASTM D5185m	>330	<b>25</b>	20	135
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

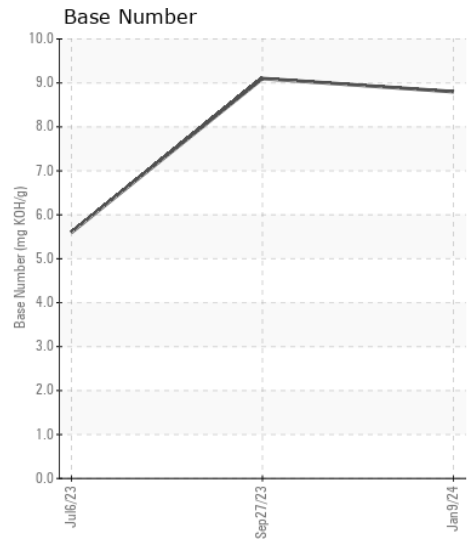
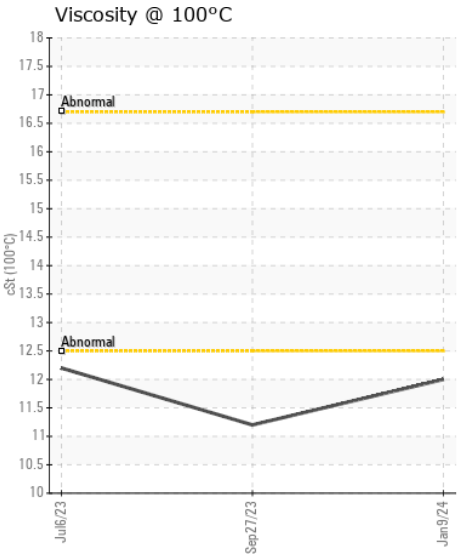
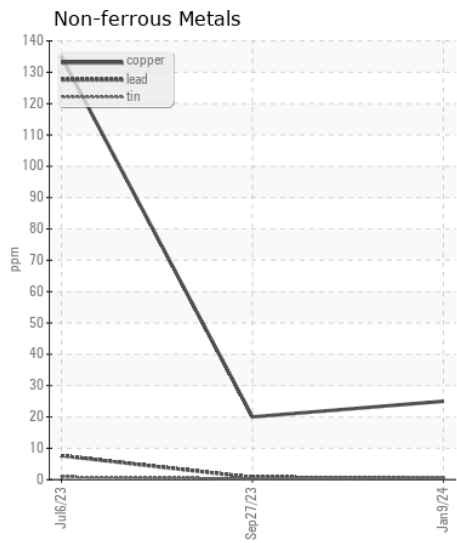
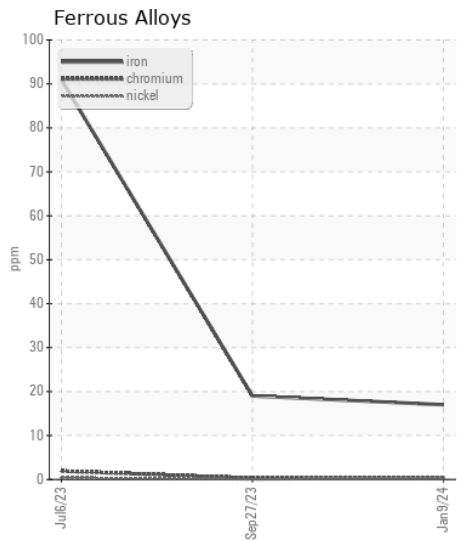
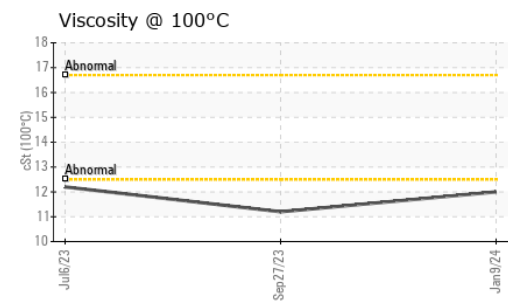
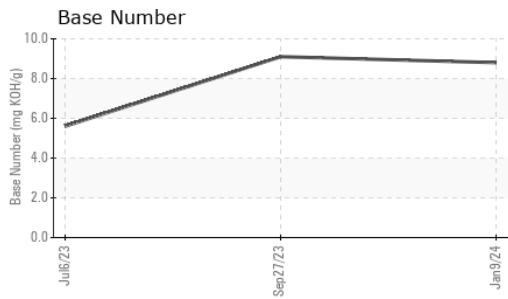
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	11	14
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	7	37
Fuel	%	ASTM D3524	>5	<b>&lt;1.0</b>	<1.0	1.5
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>1</b>	1	2.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.3</b>	9.1	13.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.0</b>	23.6	28.6
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>2</b>	3	6
Boron	ppm	ASTM D5185m		<b>29</b>	25	24
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>37</b>	43	65
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	4
Magnesium	ppm	ASTM D5185m		<b>486</b>	495	480
Calcium	ppm	ASTM D5185m		<b>1614</b>	1727	1990
Phosphorus	ppm	ASTM D5185m		<b>825</b>	793	1040
Zinc	ppm	ASTM D5185m		<b>963</b>	914	1359
Sulfur	ppm	ASTM D5185m		<b>2537</b>	2290	3230
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.9</b>	21.1	25.9
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.8</b>	9.1	5.6
Visc @ 100°C	cSt	ASTM D445		<b>12.0</b>	11.2	12.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0034900 **Received** : 17 Jan 2024  
**Lab Number** : 06063331 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834713 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET ( Additional Tests: FuelDilution )

**IDEALEASE 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

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)