



# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**4324165**  
 Component  
**Diesel Engine**  
 Fluid  
**{not provided} (--- QTS)**

## DIAGNOSIS

**▲ Recommendation**  
 We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

**▲ Wear**  
 All component wear rates are normal.

**▲ Contamination**  
 Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

**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.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>IL06073775</b>	---	---
Sample Date	Client Info		<b>29 Jan 2024</b>	---	---
Machine Age	mls Client Info		<b>0</b>	---	---
Oil Age	mls Client Info		<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100	<b>88</b>	---	---
Chromium	ppm ASTM D5185m	>20	<b>2</b>	---	---
Nickel	ppm ASTM D5185m	>4	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm ASTM D5185m	>3	<b>0</b>	---	---
Aluminum	ppm ASTM D5185m	>20	<b>▲ 14</b>	---	---
Lead	ppm ASTM D5185m	>40	<b>2</b>	---	---
Copper	ppm ASTM D5185m	>330	<b>93</b>	---	---
Tin	ppm ASTM D5185m	>15	<b>4</b>	---	---
Vanadium	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Cadmium	ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m		<b>204</b>	---	---
Barium	ppm ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m		<b>9</b>	---	---
Manganese	ppm ASTM D5185m		<b>3</b>	---	---
Magnesium	ppm ASTM D5185m		<b>12</b>	---	---
Calcium	ppm ASTM D5185m		<b>1034</b>	---	---
Phosphorus	ppm ASTM D5185m		<b>727</b>	---	---
Zinc	ppm ASTM D5185m		<b>999</b>	---	---
Sulfur	ppm ASTM D5185m		<b>2896</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	<b>▲ 58</b>	---	---
Sodium	ppm ASTM D5185m		<b>0</b>	---	---
Potassium	ppm ASTM D5185m	>20	<b>9</b>	---	---
Fuel	% ASTM D3524	>5	<b>&lt;1.0</b>	---	---

## INFRA-RED

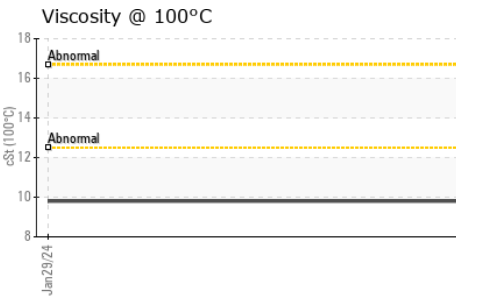
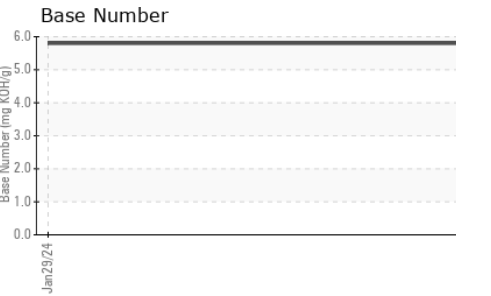
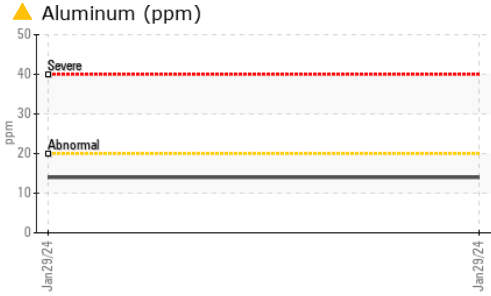
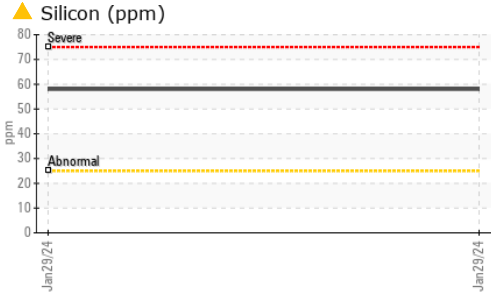
	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	<b>0.4</b>	---	---
Nitration	Abs/cm *ASTM D7624	>20	<b>6.9</b>	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	<b>20.2</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	<b>16.9</b>	---	---
Base Number (BN)	mg KOH/g ASTM D2896		<b>5.8</b>	---	---



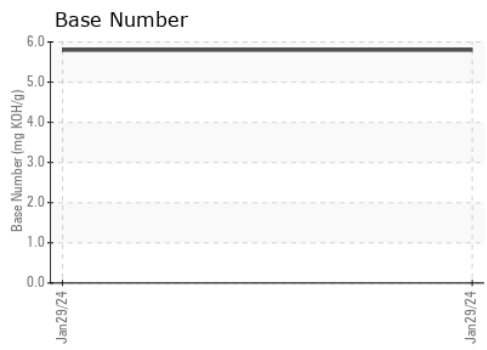
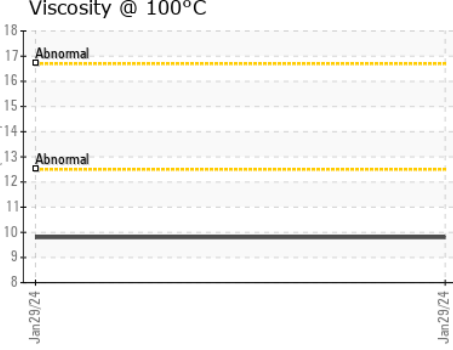
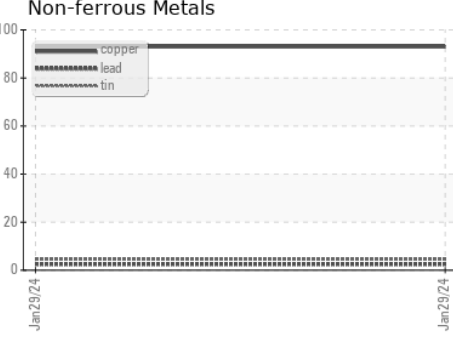
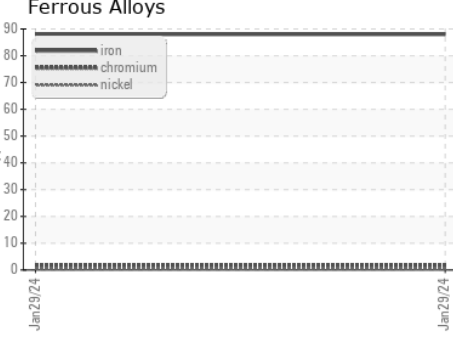
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	9.8	---	---

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL06073775 **Received** : 30 Jan 2024  
**Lab Number** : 06073775 **Diagnosed** : 31 Jan 2024  
**Unique Number** : 10855866 **Diagnostician** : Sean Felton  
**Test Package** : FLEET ( Additional Tests: FuelDilution )

**IDEALEASE-NORCROSS**  
 4571 NORTH BUFORD HWY  
 NORCROSS, GA  
 US 30071-2808  
 Contact: RICK MARKS

Certificate L2367  
 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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