



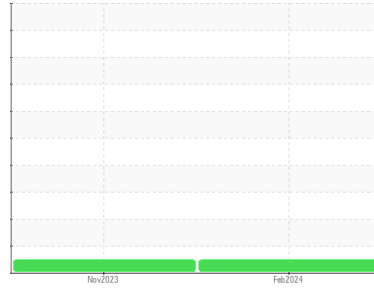
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
8417998
Component
Diesel Engine
Fluid
{not provided} (--- QTS)



DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
Metal levels are typical for a new component breaking in.

Contamination
There is no indication of any contamination in the oil.

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			IL06099973	IL06024996	---
Sample Date	Client Info			12 Feb 2024	24 Nov 2023	---
Machine Age	mls	Client Info		35929	21935	---
Oil Age	mls	Client Info		35929	21935	---
Oil Changed	Client Info			N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	38	30	---
Chromium	ppm	ASTM D5185m	>20	1	1	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	<1	<1	---
Aluminum	ppm	ASTM D5185m	>20	20	17	---
Lead	ppm	ASTM D5185m	>40	5	2	---
Copper	ppm	ASTM D5185m	>330	21	23	---
Tin	ppm	ASTM D5185m	>15	3	3	---
Vanadium	ppm	ASTM D5185m		0	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		31	48	---
Barium	ppm	ASTM D5185m		12	0	---
Molybdenum	ppm	ASTM D5185m		57	64	---
Manganese	ppm	ASTM D5185m		4	4	---
Magnesium	ppm	ASTM D5185m		386	452	---
Calcium	ppm	ASTM D5185m		1441	1751	---
Phosphorus	ppm	ASTM D5185m		859	989	---
Zinc	ppm	ASTM D5185m		1034	1196	---
Sulfur	ppm	ASTM D5185m		2406	2609	---

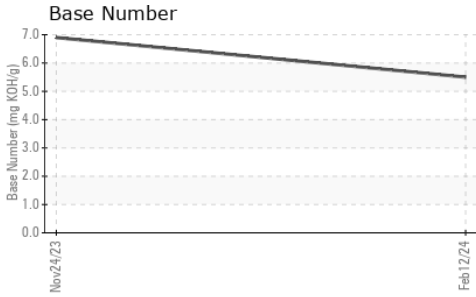
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	36	37	---
Sodium	ppm	ASTM D5185m		1	<1	---
Potassium	ppm	ASTM D5185m	>20	63	58	---
Fuel	%	ASTM D3524	>5	<1.0	<1.0	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	20.7	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.4	18.1	---
Base Number (BN)	mg KOH/g	ASTM D2896		5.5	6.9	---



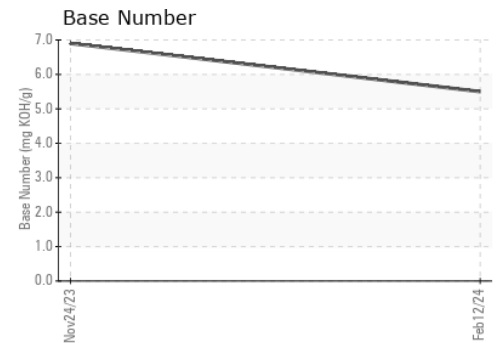
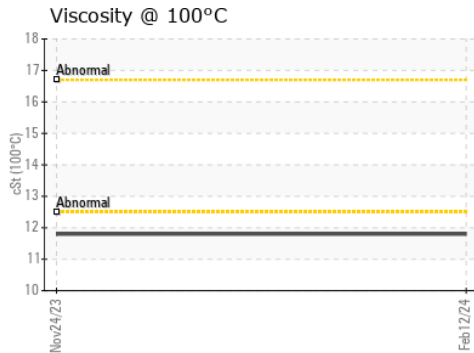
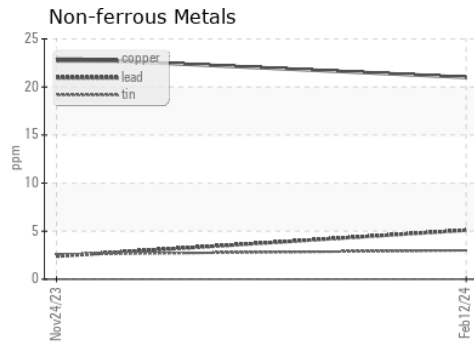
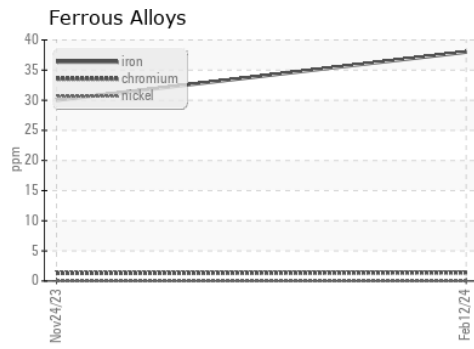
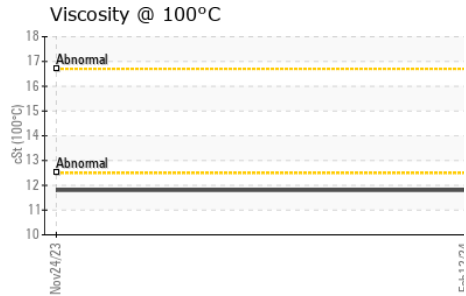
OIL ANALYSIS REPORT



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	11.8	11.8	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL06099973 **Received** : 26 Feb 2024
Lab Number : 06099973 **Tested** : 27 Feb 2024
Unique Number : 10898203 **Diagnosed** : 27 Feb 2024 - Sean Felton
Test Package : FLEET (Additional Tests: FuelDilution)

IDEALRELEASE OF ATLANTA - FULTON
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 US 30331
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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)