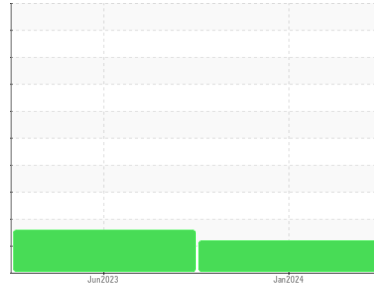




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
6320189

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 40 (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you check the fuel injection system. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

Light fuel dilution occurring. Tests confirm the presence of fuel in the oil.

▲ Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		IL0034897	IL05911756	---
Sample Date	Client Info		05 Jan 2024	29 Jun 2023	---
Machine Age	mls	Client Info	79200	30952	---
Oil Age	mls	Client Info	0	30952	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

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	120	149	---
Chromium	ppm	ASTM D5185m >20	6	6	---
Nickel	ppm	ASTM D5185m >4	<1	<1	---
Titanium	ppm	ASTM D5185m	2	25	---
Silver	ppm	ASTM D5185m >3	0	0	---
Aluminum	ppm	ASTM D5185m >20	24	51	---
Lead	ppm	ASTM D5185m >40	<1	<1	---
Copper	ppm	ASTM D5185m >330	5	34	---
Tin	ppm	ASTM D5185m >15	1	2	---
Vanadium	ppm	ASTM D5185m	0	<1	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	33	15	---
Barium	ppm	ASTM D5185m 10	0	2	---
Molybdenum	ppm	ASTM D5185m 100	44	42	---
Manganese	ppm	ASTM D5185m	2	9	---
Magnesium	ppm	ASTM D5185m 450	580	740	---
Calcium	ppm	ASTM D5185m 3000	1466	1345	---
Phosphorus	ppm	ASTM D5185m 1150	777	895	---
Zinc	ppm	ASTM D5185m 1350	922	1149	---
Sulfur	ppm	ASTM D5185m 4250	2289	2652	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	21	▲ 36	---
Sodium	ppm	ASTM D5185m >216	3	6	---
Potassium	ppm	ASTM D5185m >20	57	134	---
Fuel	%	ASTM D3524 >5	▲ 4.7	<1.0	---

INFRA-RED

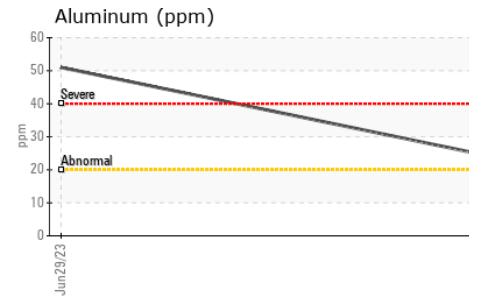
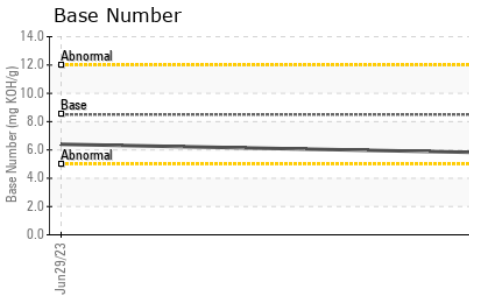
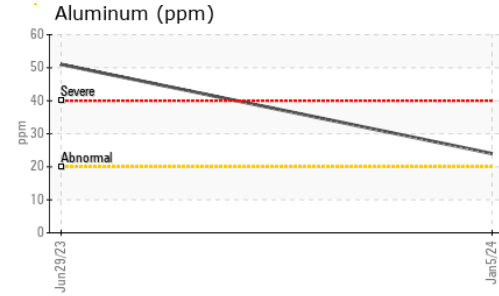
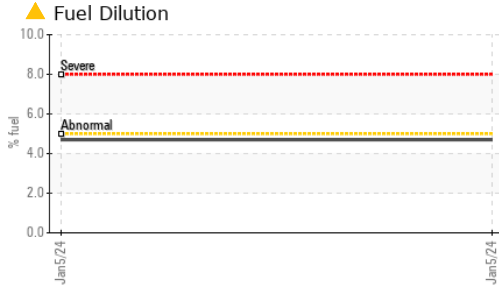
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.6	1.1	---
Nitration	Abs/cm	*ASTM D7624 >20	14.4	14.1	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	26.6	27.3	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	28.7	25.3	---
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	5.8	6.4	---



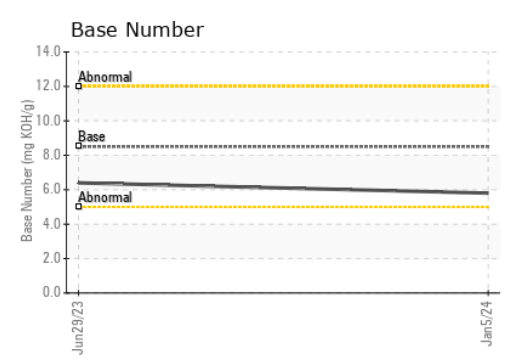
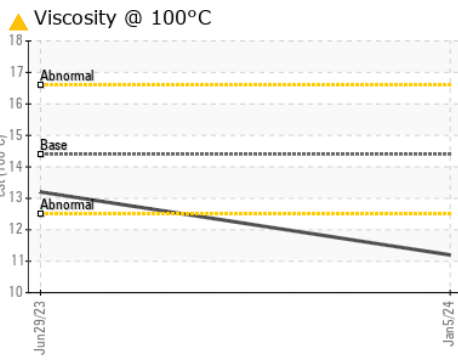
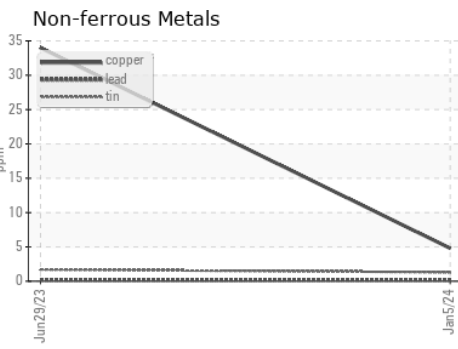
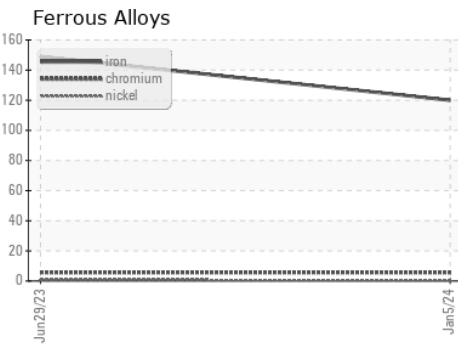
OIL ANALYSIS REPORT



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	14.4	▲ 11.2	13.2

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0034897 **Received** : 17 Jan 2024
Lab Number : 06063332 **Diagnosed** : 24 Jan 2024
Unique Number : 10834714 **Diagnostician** : Angela Borella
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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

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)