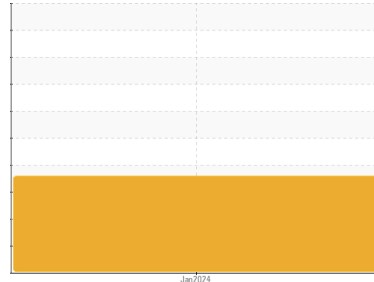




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
INTERNATIONAL 441424

Component
Diesel Engine

Fluid
MOBIL DELVAC 1300 SUPER15W40 (44 QTS)

DIAGNOSIS

▲ Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. 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

Elemental levels of silicon (Si) and aluminum (Al) indicate possible alumina-silicate (coarse dirt) ingress. There is a moderate amount of fuel present in the oil. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Test for glycol is negative.

▲ Fluid Condition

Fuel is present in the oil and is lowering the viscosity. 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		IL0030581	---	---
Sample Date	Client Info		09 Jan 2024	---	---
Machine Age	hrs	Client Info	24770	---	---
Oil Age	hrs	Client Info	24770	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	54	---
Chromium	ppm	ASTM D5185m	>20	1	---
Nickel	ppm	ASTM D5185m	>2	<1	---
Titanium	ppm	ASTM D5185m	>2	<1	---
Silver	ppm	ASTM D5185m	>2	<1	---
Aluminum	ppm	ASTM D5185m	>20	▲ 25	---
Lead	ppm	ASTM D5185m	>40	3	---
Copper	ppm	ASTM D5185m	>330	27	---
Tin	ppm	ASTM D5185m	>15	3	---
Vanadium	ppm	ASTM D5185m		<1	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	52	---
Barium	ppm	ASTM D5185m	0	4	---
Molybdenum	ppm	ASTM D5185m	0	64	---
Manganese	ppm	ASTM D5185m		5	---
Magnesium	ppm	ASTM D5185m	0	493	---
Calcium	ppm	ASTM D5185m		1654	---
Phosphorus	ppm	ASTM D5185m		1036	---
Zinc	ppm	ASTM D5185m		1267	---
Sulfur	ppm	ASTM D5185m		3068	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	▲ 43	---
Sodium	ppm	ASTM D5185m		5	---
Potassium	ppm	ASTM D5185m	>20	79	---
Fuel	%	ASTM D3524	>3.0	▲ 4.5	---

INFRA-RED

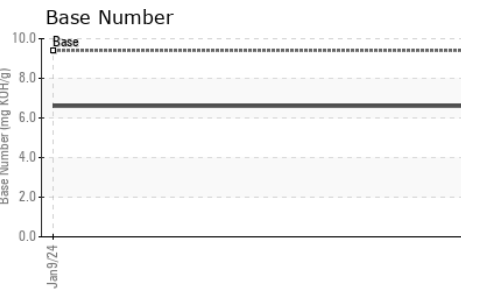
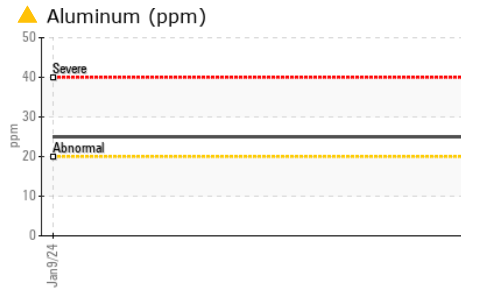
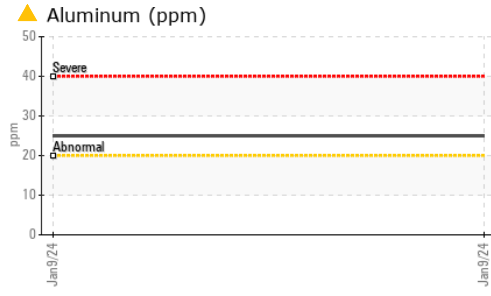
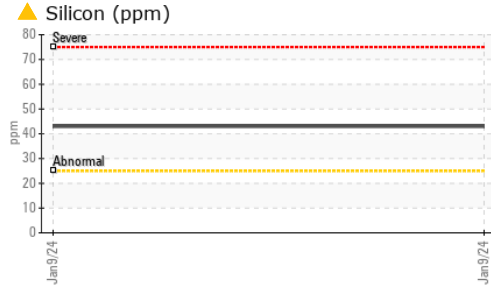
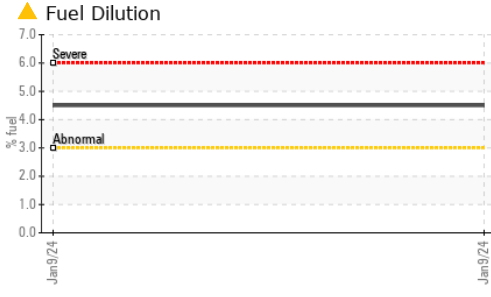
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	8.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	6.6	---



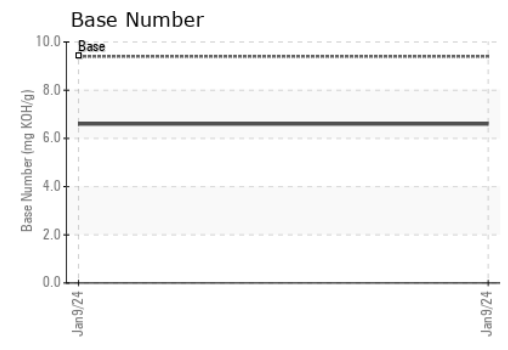
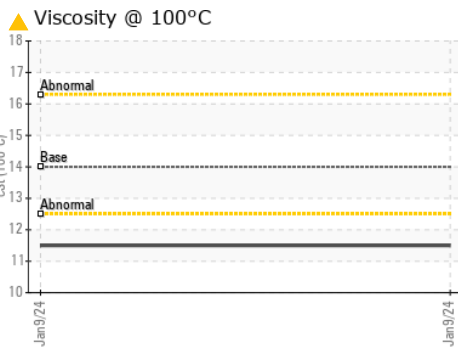
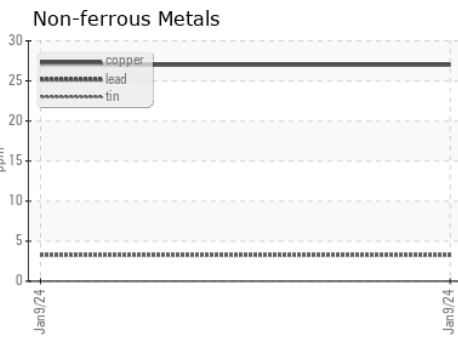
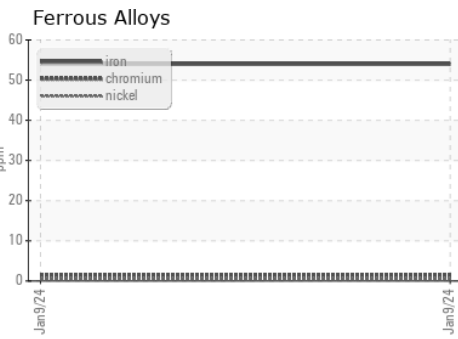
OIL ANALYSIS REPORT



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	▲ 11.5	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0030581 **Received** : 18 Jan 2024
Lab Number : 06064847 **Diagnosed** : 24 Jan 2024
Unique Number : 10836229 **Diagnostician** : Doug Bogart
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

RUSH TRUCK LEASING - CHARLOTTE IDEALEASE
 1333 AMERON DR
 CHARLOTTE, NC
 US 28206
 Contact: JERRY DIXON
 dixonj@rushenterprises.com
 T: (704)333-4507
 F: (704)333-4508

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)