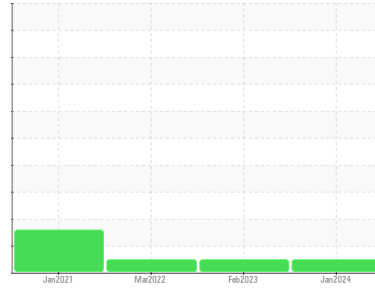




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
441391

Component
Diesel Engine

Fluid
MOBIL DELVAC 1300 SUPER15W40 (44 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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			IL0030576	IL0026653	IL0024271
Sample Date	Client Info			11 Jan 2024	27 Feb 2023	28 Mar 2022
Machine Age	mls	Client Info		143720	119267	84372
Oil Age	mls	Client Info		108825	34895	84372
Oil Changed	Client Info			N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>3.0		<1.0	<1.0	<1.0
Water	WC Method	>0.2		NEG	NEG	NEG
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	18	16	24
Chromium	ppm	ASTM D5185m	>20	<1	2	2
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	5	11
Lead	ppm	ASTM D5185m	>40	2	3	2
Copper	ppm	ASTM D5185m	>330	1	2	5
Tin	ppm	ASTM D5185m	>15	1	2	2
Antimony	ppm	ASTM D5185m		---	---	---
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	17	31
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	60	39	46
Manganese	ppm	ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m	0	957	490	549
Calcium	ppm	ASTM D5185m		1144	1736	1780
Phosphorus	ppm	ASTM D5185m		1030	669	791
Zinc	ppm	ASTM D5185m		1244	863	1020
Sulfur	ppm	ASTM D5185m		3244	2299	2225

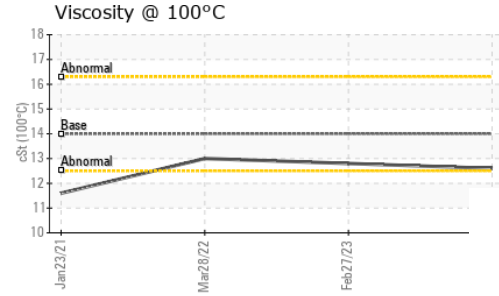
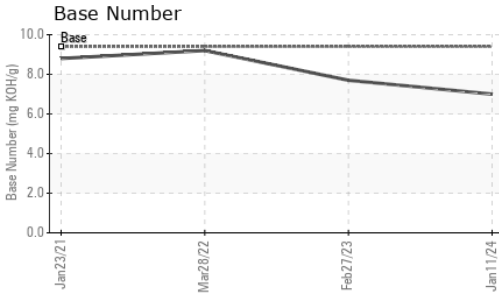
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	8	10
Sodium	ppm	ASTM D5185m		2	0	2
Potassium	ppm	ASTM D5185m	>20	5	8	24

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.7	11.6	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	23.6	23.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	23.9	22.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	7.0	7.7	9.2



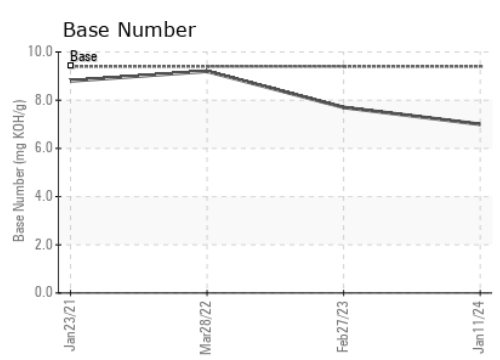
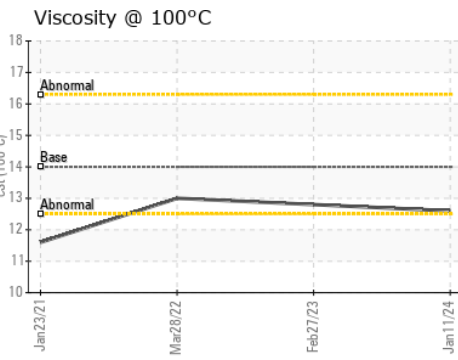
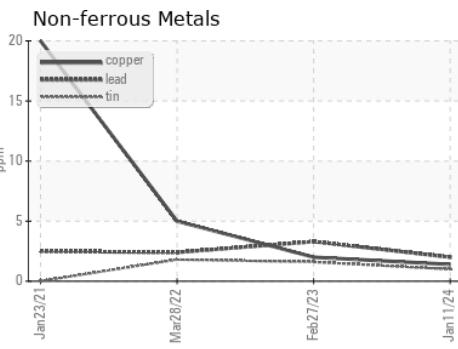
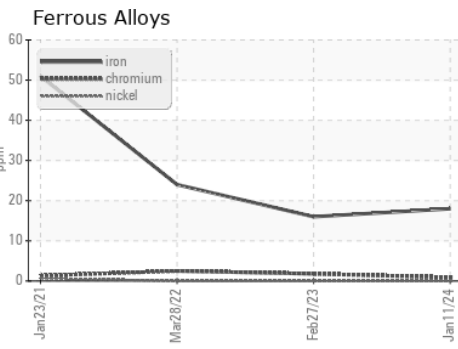
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14	12.6	12.8	13.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : IL0030576 **Recieved** : 18 Jan 2024
Lab Number : **06064846** **Diagnosed** : 19 Jan 2024
Unique Number : 10836228 **Diagnostician** : Wes Davis
Test Package : FLEET

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)