WEAR CONTAMINATION FLUID CONDITION

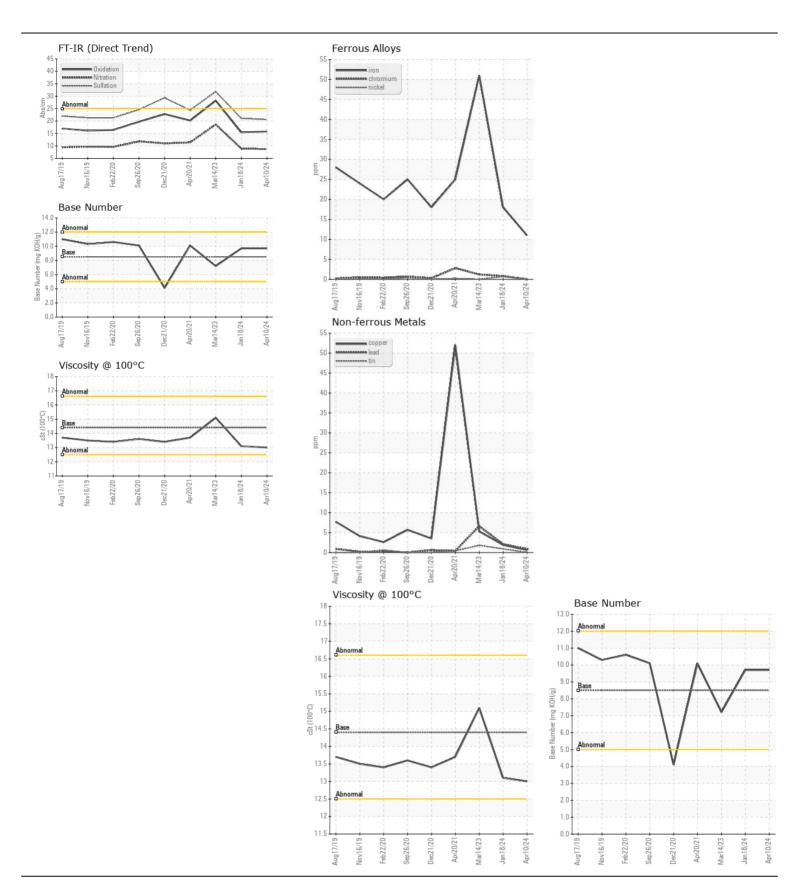
NORMAL NORMAL NORMAL

Machine Id

151801 Component

## Component Diesel Engine

DIESEL ENGINE OIL SAE 40 ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		IL06151615		IL05811310
	Sample Date		Client Info		10 Apr 2024	18 Jan 2024	14 Mar 2023
	Machine Age	hrs	Client Info		5619	5406	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	11	18	51
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	<1	1
	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	2	1	6
	Lead	ppm	ASTM D5185m	>40	<1	2	7
	Copper	ppm	ASTM D5185m	>330	<1	2	5
	Tin	ppm	ASTM D5185m	>15	0	<1	2
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3	5	7
	Potassium	ppm	ASTM D5185m	>20	2	1	2
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1	1.2	<b>△</b> 3.7
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	8.9	18.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	21.1	▲ 31.8
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	2	0	4
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		2	6	16
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	59	69	46
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		920	1014	588
	Calcium	ppm	ASTM D5185m		1085	1212	1631
	Phosphorus	ppm	ASTM D5185m		993	1107	779
	Zinc	ppm	ASTM D5185m		1142	1331	1033
	Sulfur	ppm	ASTM D5185m	4250	3446	3427	2802
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	15.5	<b>28.2</b>
	Base Number (BN) Visc @ 100°C		ASTM D2896 ASTM D445		9.7 13.0	9.7 13.1	7.2 15.1







Certificate L2367

Laboratory Sample No.

: IL06151615 **Lab Number** : 06151615 Unique Number: 10981693 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Apr 2024

**Tested** : 19 Apr 2024 Diagnosed : 19 Apr 2024 - Wes Davis

**RUSH TRUCK LEASING - CINCINNATI IDEALEASE** 

11777 HIGHWAY DRIVE CINCINNATI, OH

US 45241 Contact: ROBERT BAIER

baierr@rushenterprises.com T: (513)657-7901

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)

F: (513)733-0537