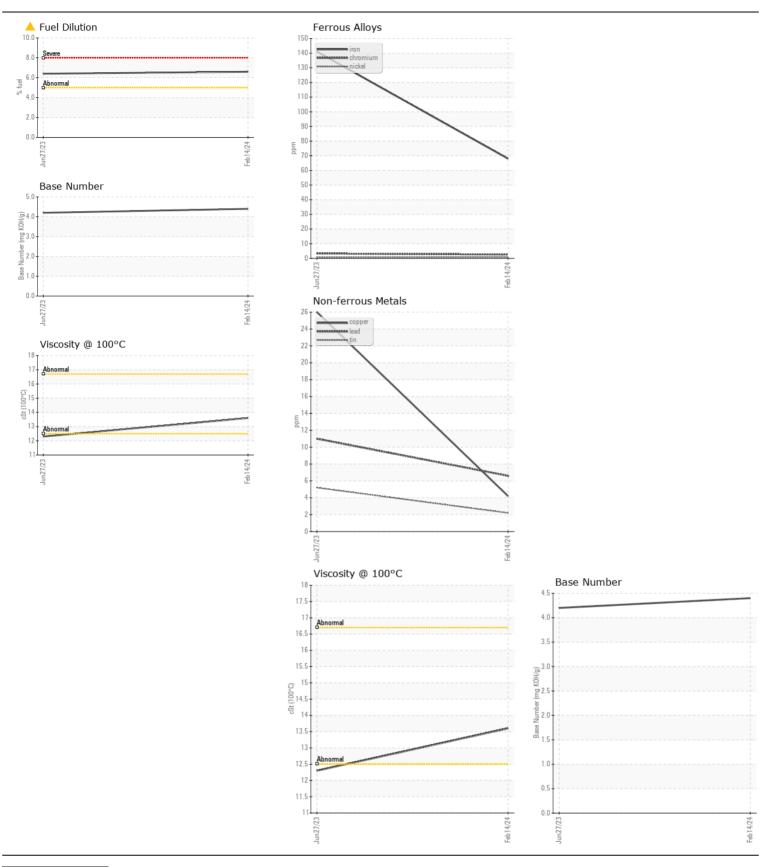
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

Machine Id

Component \_

Diesel Engine -luid {not provided} ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		IL06101386	IL05902972	
We advise that you check the fuel injection system. Resample at the next service interval to monitor.	Sample Date		Client Info		14 Feb 2024	27 Jun 2023	
	Machine Age	mls	Client Info		0	40545	
	Oil Age	mls	Client Info		30000	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	68	<u> </u>	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	3	3	
	Nickel	ppm	ASTM D5185m	>4	<1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	<1	<1	
	Aluminum	ppm	ASTM D5185m	>20	8	<u> </u>	
	Lead	ppm	ASTM D5185m	>40	7	11	
	Copper	ppm	ASTM D5185m	>330	4	26	
	Tin	ppm	ASTM D5185m	>15	2	5	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10	<b>△</b> 35	
There is a moderate amount of fuel present in the oil.	Potassium	ppm	ASTM D5185m	>20	13	30	
	Fuel	%	ASTM D3524	>5	<b>6.6</b>	<b>△</b> 6.4	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.8	0.9	
	Nitration	Abs/cm	*ASTM D7624	>20	14.7	16.1	
	Sulfation	Abs/.1mm	*ASTM D7415		27.9	30.1	
	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 >0.2	NORML	NORML	
<u></u>	Emulsified Water	Scalar	visuai	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	5	
	Boron	ppm	ASTM D5185m		4	40	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		2	0	
	Molybdenum	ppm	ASTM D5185m		58	60	
	Manganese	ppm	ASTM D5185m		2	6	
	Magnesium	ppm	ASTM D5185m		743	432	
	Calcium	ppm	ASTM D5185m		960	1691	
	Phosphorus	ppm	ASTM D5185m		861	889	
	Zinc	ppm	ASTM D5185m		1053	1159	
	Sulfur	ppm	ASTM D5185m		2593	3098	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	32.5	35.2	
	Base Number (BN)	0 0	ASTM D2896		4.4	4.2	
	Visc @ 100°C	cSt	ASTM D445		13.6	<u> </u>	







Laboratory Sample No.

: IL06101386 Lab Number : 06101386 Unique Number : 10899616

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Feb 2024 **Tested** 

: 29 Feb 2024 Diagnosed : 29 Feb 2024 - Jonathan Hester Test Package : FLEET ( Additional Tests: PercentFuel )

**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 Contact/Location: ROBERT BAIER - IDECIN