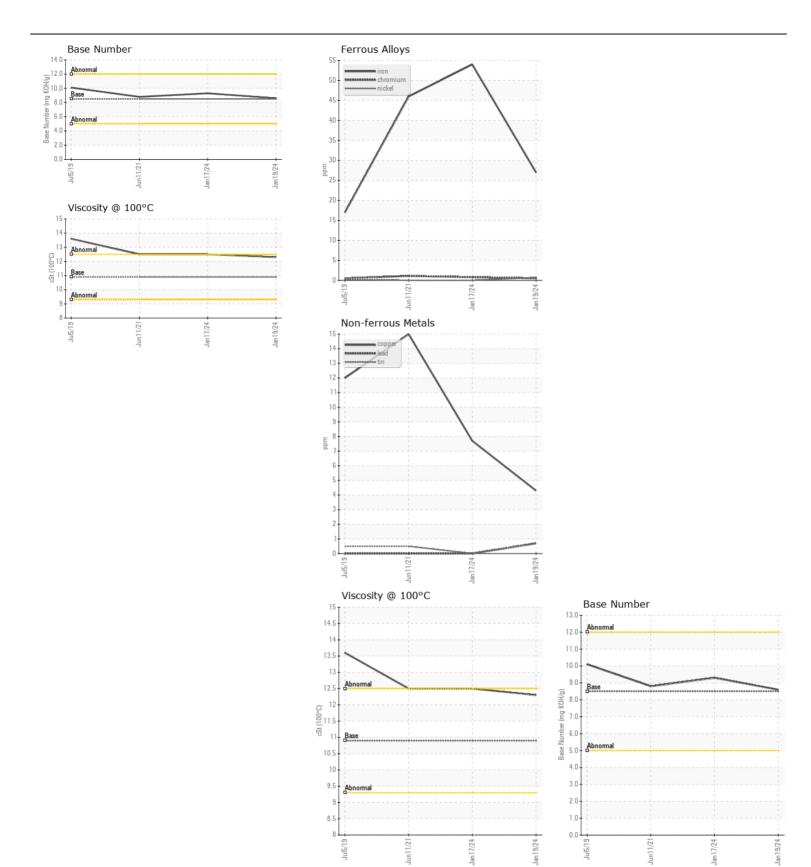
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

INTERNATIONAL 441322

Component Diesel Engine							
DIESEL ENGINE OIL SAE 30 (21 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number	OOW	Client Info	LIIIIU/ADII	IL0030592	-	IL0021855
	Sample Number		Client Info		19 Jan 2024	17 Jan 2024	11 Jun 2021
	Machine Age	mls	Client Info		71241	58647	30433
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed	11115	Client Info		N/A	N/A	Changed
	Filter Changed		Client Info		N/A	N/A	
	Sample Status		Client inio		NORMAL	NORMAL	Changed ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>130	27	54	46
Matal lavale are trained for a new common throughout in	Chromium	ppm	ASTM D5185m	>10	<1	<1	1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m	>2	<1	0	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	11	18	29
	Lead	ppm	ASTM D5185m	>20	<1	0	0
	Copper	ppm	ASTM D5185m	>125	4	8	15
	Tin	ppm	ASTM D5185m	>4	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m		6	8	9
	Potassium	ppm	ASTM D5185m		12	14	68
	Fuel			>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.3	0.4	0.4
	Nitration	Abs/cm		>20	8.8	8.9	10.4
	Sulfation	Abs/.1mm	*ASTM D7415		19.5	19.7	22.2
	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	~ 75	0	3	3
I LOID CONDITION	Boron	ppm	ASTM D5185m		4	9	60
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		14	0	0
	Molybdenum	ppm	ASTM D5185m		69	60	25
	Manganese	ppm	ASTM D5185m	100	<1	<1	1
	Magnesium		ASTM D5185m	450	921	931	645
	Calcium	ppm	ASTM D5185m		1101	1148	1591
	Phosphorus	ppm	ASTM D5185m		965	1053	782
	Zinc		ASTM D5185m		1217	1248	894
	Sulfur	ppm	ASTM D5185m		3358	3201	2581
	Oxidation	Abs/.1mm	*ASTM D3163111		16.2	16.5	18.6
	Base Number (BN)				8.6	9.3	8.8
	Visc @ 100°C	cSt	ASTM D2090		12.3	12.5	12.5
	*130 @ 100 U	COL	ACTIVIDATO	10.5	12.3	12.0	12.0







Certificate L2367

Laboratory Sample No.

: IL0030592 Lab Number : 06086563 Unique Number : 10874008 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Feb 2024 **Tested**

: 13 Feb 2024 Diagnosed : 13 Feb 2024 - Wes Davis

RUSH TRUCK LEASING - CHARLOTTE IDEALEASE 1333 AMERON DR CHARLOTTE, NC

US 28206 Contact: JERRY DIXON dixonj@rushenterprises.com

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. T: (704)333-4507 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)333-4508