WEAR CONTAMINATION FLUID CONDITION

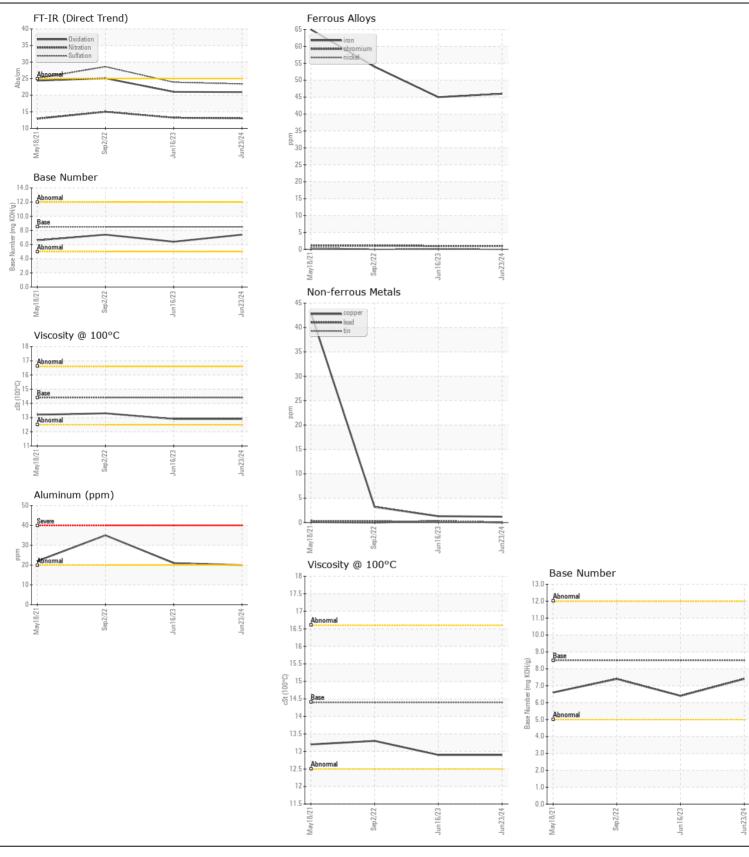
NORMAL NORMAL NORMAL

Machine Id

142133

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		IL06217731	IL05902988	IL0567718
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 Date		Client Info		23 Jun 2024	16 Jun 2023	02 Sep 202
	Machine Age	hrs	Client Info		4384	0	2669
	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	ATTENTIO
WEAR	Iron	ppm	ASTM D5185m	>100	46	45	54
WEAR	Chromium	ppm	ASTM D5185m		1	1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	\3	0	0	0
	Aluminum	ppm	ASTM D5185m		20	21	35
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		1	1	3
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m	7.0	<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliaan		ACTM DE10Em	. 05	E	6	10
CONTAMINATION	Silicon	ppm	ASTM D5185m		5 42	6 47	10
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.	Potassium Fuel	ppm	ASTM D5185m WC Method			<1.0	<1.0
	Water		WC Method	>5	<1.0 NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. 2	NEG 1	0.8	1.1
	Nitration	Abs/cm		>20	13.0	13.2	15.0
	Sulfation	Abs/.1mm	*ASTM D7024		23.4	23.9	28.6
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Co di		ACTM DE105	010			
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2 7	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m				3
	Barium	ppm	ASTM D5185m		0 60	0	0
	Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m	100	60	51 <1	61 <1
	Magnesium	ppm	ASTM D5185m	150	<1 957	910	869
	Calcium	ppm	ASTM D5185m		957 1178	1208	1253
	Phosphorus	ppm	ASTM D5185m		1057	942	994
	Zinc		ASTM D5185m		1279	1178	1242
	Sulfur	ppm	ASTM D5185m		3606	3611	3840
	Oxidation	Abs/.1mm	*ASTM D3163111		20.9	21.0	25.1
	UXIUATIUH	MN9/-111111	AO 11VI D/414	260		∠1.U	∠5.1
	Base Number (BN)	ma KOH/a	ASTM D2806	8.5	7.4	6.4	7.4







Certificate L2367

Laboratory Sample No.

: IL06217731 Lab Number : 06217731 Unique Number : 11090595 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jun 2024 **Tested** : 25 Jun 2024

: 25 Jun 2024 - Wes Davis Diagnosed

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