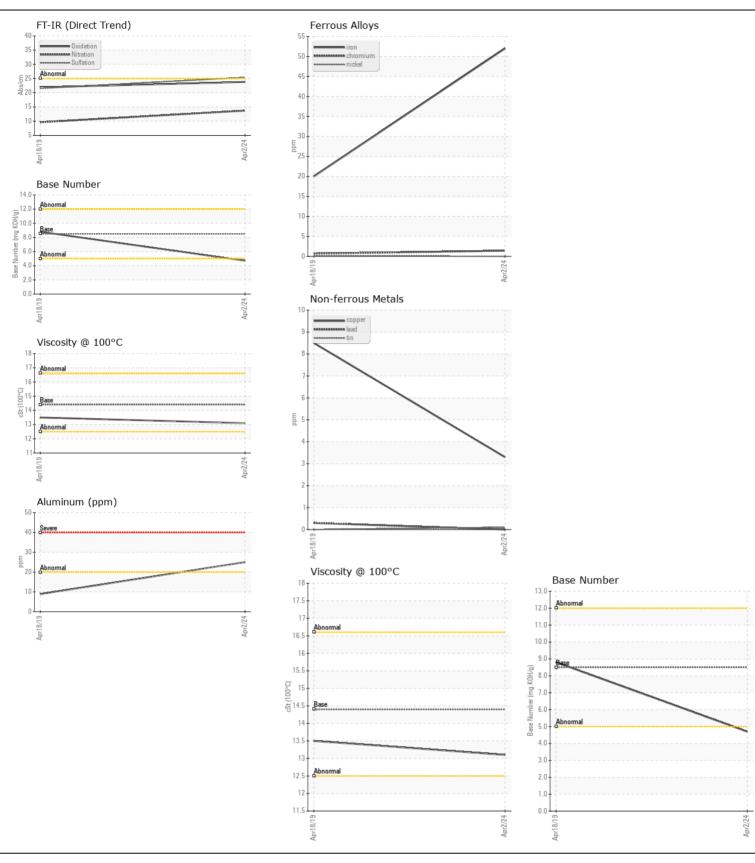
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

INTERNATIONAL 14524

Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (GAL)							
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		Client Info		IL0035589		
	Sample Date		Client Info		02 Apr 2024	18 Apr 2019	
	Machine Age	mls	Client Info		152978	14438	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	52	20	
	Chromium	ppm	ASTM D5185m	>20	1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>3	0	<1	
	Aluminum	ppm	ASTM D5185m		25	9	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		3	8	
	Tin	ppm	ASTM D5185m		<1	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9	11	
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	ppm	ASTM D5185m	>20	35	35	
	Fuel		WC Method	>2.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.9	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	13.7	9.6	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4	21.5	
	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	
ELUID CONDITION	Codium		ACTM DE10Em	. 150	•	E	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	5	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m ASTM D5185m		27	31	
	Molybdenum	ppm	ASTM D5185m		116	20	
	•	ppm	ASTM D5185m ASTM D5185m	100	116	39 1	
	Maganese	ppm		1F0	<1 712		
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		713 1419	491 1506	
	Phosphorus	ppm	ASTM D5185m			732	
		ppm			756		
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		924	846	
		ppm Abo/1mm			3234	1950	
	Oxidation	Abs/.1mm	*ASTM D7414		23.8	21.9	
	Base Number (BN) Visc @ 100°C	mg KUH/g cSt	ASTM D2896 ASTM D445		4.7	8.8 13.5	
	v190 @ 100°C	USI	A311VI D443	14.4	13.1	13.3	





Certificate L2367

Laboratory Sample No.

: IL0035589 Lab Number : 06158798 Unique Number : 10994221 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

Diagnosed : 25 Apr 2024 - Wes Davis

RUSH TRUCK LEASING - SALT LAKE CITY IDEALEASE 964 SOUTH 3800 WEST, BLDG B SALT LAKE CITY, UT

US 84104 Contact: BRUCE VAUGHN

VaughnB@RushEnterprises.com T:

* - 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)

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