WEAR CONTAMINATION FLUID CONDITION

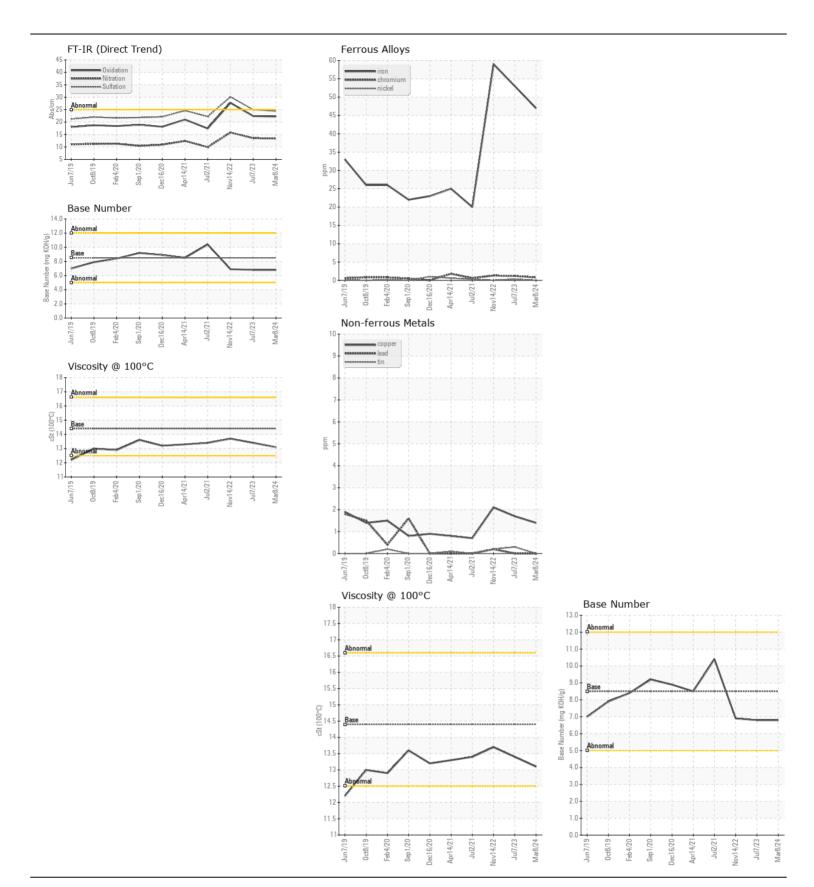
NORMAL NORMAL NORMAL

Machine Id

141802

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	OOW	Client Info	LITTIO TOTT	IL06151601	IL05902978	IL05702197
	Sample Date		Client Info		08 Mar 2024	07 Jul 2023	14 Nov 2022
	Machine Age	hrs	Client Info		8821	138678	7421
	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	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	47	53	59
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	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	16	17	18
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m	>330	1	2	2
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	5	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	9	9	14
	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		1	1.1	1.4
	Nitration	Abs/cm	*ASTM D7624	>20	13.4	13.5	15.8
	Sulfation	Abs/.1mm	*ASTM D7415		24.4	25.0	30.1
	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 NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	Scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		3	2	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		<1	3	0
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	63	61	62
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		903	1039	882
	Calcium	ppm	ASTM D5185m	3000	1072	1281	1164
	Phosphorus	ppm	ASTM D5185m		940	1068	988
	Zinc	ppm	ASTM D5185m		1130	1360	1161
	Sulfur	ppm	ASTM D5185m		3195	3778	3252
	Oxidation	Abs/.1mm	*ASTM D7414		22.2	22.4	27.7
	Base Number (BN)				6.8	6.8	6.9
	Visc @ 100°C	cSt	ASTM D445	14.4	13.1	13.4	13.7







Certificate L2367

Laboratory Sample No.

: IL06151601 Lab Number : 06151601

Unique Number: 10981679 Test Package : FLEET

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

: 17 Apr 2024 : 19 Apr 2024 Diagnosed

: 19 Apr 2024 - Wes Davis

RUSH TRUCK LEASING - CINCINNATI IDEALEASE 11777 HIGHWAY DRIVE

CINCINNATI, OH US 45241

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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)