

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

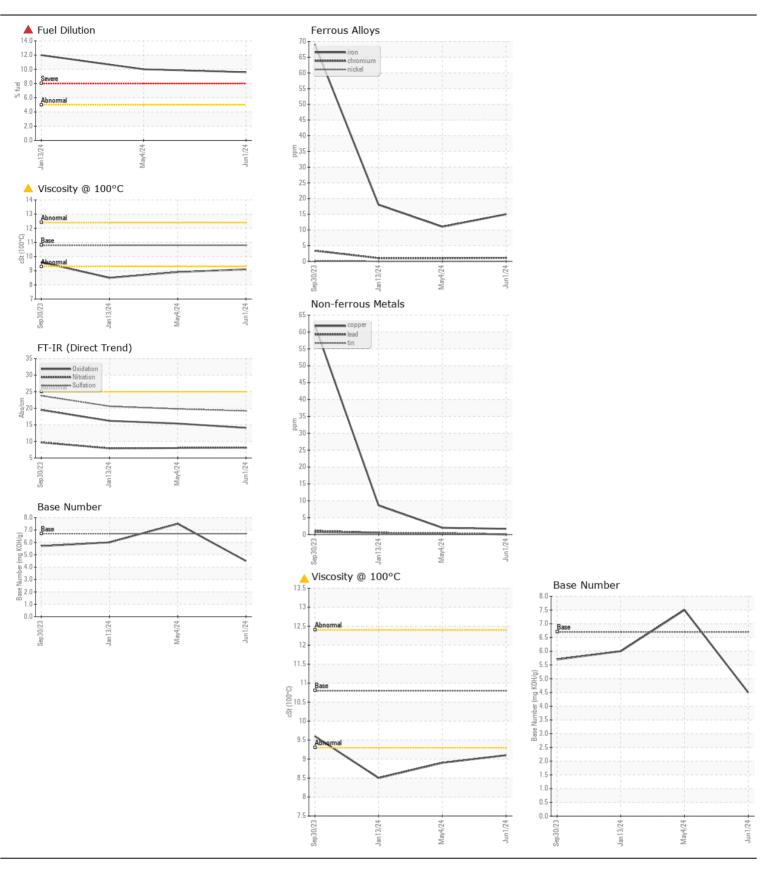
**NORMAL SEVERE ABNORMAL** 

Machine Id

## FORD 8464942

Component
Diesel Fngine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		RPL0021004	RPL0020447	RPL001739
We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Date		Client Info		01 Jun 2024	04 May 2024	13 Jan 202
	Machine Age	mls	Client Info		21941	19945	15242
	Oil Age	mls	Client Info		6699	4703	15242
	Filter Age	mls	Client Info		6699	0	15242
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		Not Changd	Changed	Changed
	Sample Status				SEVERE	SEVERE	SEVERE
A/E A D			AOTH DE LOS	400		4.4	40
WEAR	Iron	ppm	ASTM D5185m		15	11	18
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		1	1	1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		<1	1	2
	Aluminum	ppm	ASTM D5185m		<1	2	3
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		2	2 <1	9 <1
	Vanadium	ppm	ASTM D5185m	>10	0	<1	<1
	White Metal	ppm	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
·		Scalai	visuai	NONL	NONE	INOINL	INOINL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	7	8
	Potassium	ppm	ASTM D5185m	>20	3	4	4
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3524	>5	<b>4</b> 9.6	<b>1</b> 0.0	<b>12.0</b>
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.0	7.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.8	20.6
	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	scalar	*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	nnm	ACTM DE10Em		2	2	-4
FLUID CONDITION	Boron	ppm	ASTM D5185m ASTM D5185m		2 40	2 55	<1 42
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	0	3
	Molybdenum	ppm	ASTM D5165III		0 <1	2	2
	Manganese		ASTM D5165III		<1 <1	<1	1
	Magnesium	ppm	ASTM D5185m		743	633	603
	Calcium	ppm	ASTM D5185m		1363	1151	1096
	Phosphorus	ppm	ASTM D5185m		1076	1028	892
	Zinc	ppm	ASTM D5185m		1245	1028	1017
	Sulfur	ppm	ASTM D5185m		4261	3525	3489
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	15.4	16.2
	Base Number (BN)				4.5	7.5	6.0







Certificate L2367

Laboratory Sample No. Unique Number : 11086024

: RPL0021004 Lab Number : 06213160

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

**Tested** Diagnosed Test Package : FLEET ( Additional Tests: PercentFuel )

Received : 18 Jun 2024 : 20 Jun 2024

: 20 Jun 2024 - Wes Davis

RTL PACLEASE - 7006 - Pico Rivera 7837 Telegraph Rd Pico Rivera, CA

US 90660 Contact: FRANK MARIN Marinf@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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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