OIL ANALYSIS REPORT

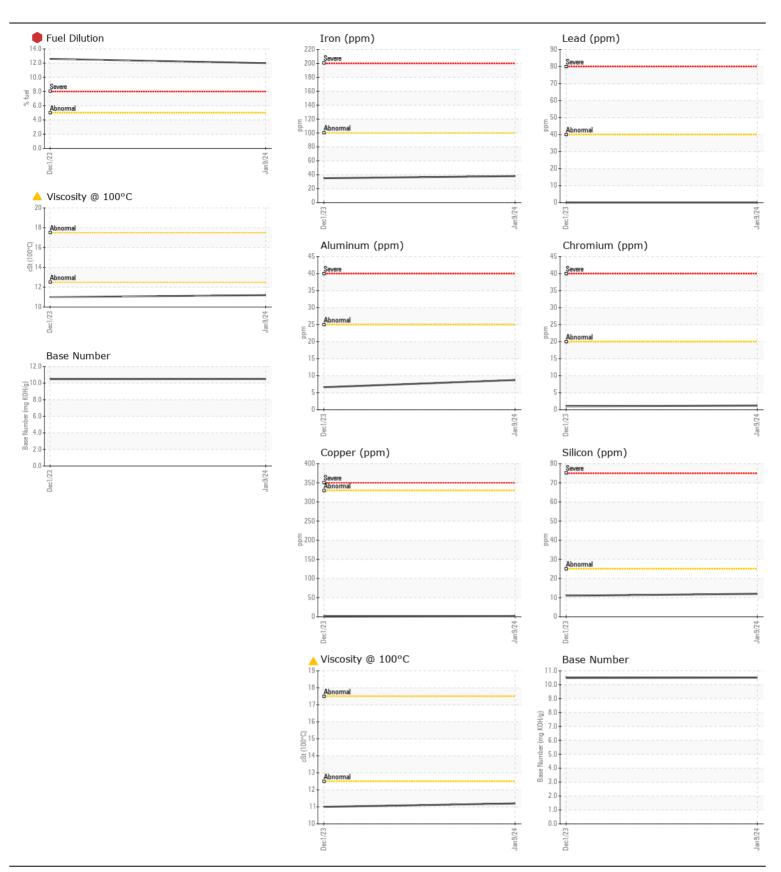
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE ABNORMAL

FORD F350 C14 (S/N 1FD8X3BTVCEB75527)

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number	COIVI	Client Info	ZIIIIU/NUII	TR06062198		
	Sample Date		Client Info		09 Jan 2024	01 Dec 2023	
	Machine Age	mls	Client Info		214608	214141	
	Oil Age	mls	Client Info		467	5000	
	Filter Age	mls	Client Info		467	5000	
	Oil Changed	11110	Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				SEVERE	SEVERE	
WEAR	Iron	nnm	ASTM D5185m	> 100	38	35	
WEAN	Chromium	ppm	ASTM D5185m		აი 1	1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		∪ <1	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		9	7	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		2	<1	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m	/10	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		12	11	
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm o/	ASTM D5185m		0	0	
	Fuel Water	%	ASTM D3524 WC Method		12.0 NEG	12.6 NEG	
	Glycol		WC Method	>0.2	NEG	NEG	
	Soot %	%	*ASTM D7844	. 2	0.2	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	10.7	10.5	
	Sulfation	Abs/.1mm	*ASTM D7024		21.2	21.0	
	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			>0.2	NEG	NEG	
TI LUD CONDITION	0 "						
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	2	
The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		3	11	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		103	107	
	Manganese	ppm	ASTM D5185m		1	<1	
	Magnesium	ppm	ASTM D5185m		77	84	
	Calcium	ppm	ASTM D5185m		3341	3414	
	Phosphorus	ppm	ASTM D5185m		727	690	
	Zinc	ppm	ASTM D5185m		871	860	
	Sulfur	ppm	ASTM D5185m	0.5	3322	3606	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	14.9	
	Base Number (BN)	ma 1/011/-	ACTM DOGGO		10.51	10.49	







Laboratory Sample No. Lab Number **Unique Number**

: TR06062198 : 06062198 : 10833580

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

: 18 Jan 2024 Test Package : MOB 2 (Additional Tests: PercentFuel)

Diagnostician : Wes Davis

: 16 Jan 2024

To discuss this sample report, contact Customer Service at 1-800-827-0711. * - 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)

RUNDELL INC 2465 STATE HWY 38

DRAIN, OR US 97435

Contact: JEFF WARREN

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