

5C07 Machine Id FORD F-550 TVK9138 (S/N 1FDUF5GT8FEA62735) Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- QTS)

DILGEL LINGINE OIL GAL ISW40 (QIS)							
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		Client Info		ARI0007873	ARI0006734	
	Sample Date		Client Info		18 Apr 2024	16 Aug 2023	
	Machine Age	mls	Client Info		75126	71232	
	Oil Age	mls	Client Info		3894	0	
	Filter Age	mls	Client Info		3894	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				SEVERE	SEVERE	
WEAR	Iron	ppm	ASTM D5185m	>100	65	143	
TEAT	Chromium	ppm	ASTM D5185m		5	4	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver		ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		11	16	
	Lead	ppm	ASTM D5185m		0	0	
		ppm			2		
	Copper Tin	ppm	ASTM D5185m ASTM D5185m			3 0	
		ppm		>15	<1 0		
	Vanadium	ppm	ASTM D5185m	NONE	-		
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	14	12	
There is a high amount of fuel present in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	1	
	Fuel	%	ASTM D3524	>5	1 7.7	2 0.1	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.5	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	15.1	16.3	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.7	24.8	
	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	
	Codium		ASTM D5185m	. 150	<u></u>	0	
FLUID CONDITION	Sodium	ppm			2	2	
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Boron	ppm	ASTM D5185m		4	11	
	Barium	ppm	ASTM D5185m	10	0	0	
	Molybdenum	ppm	ASTM D5185m	100	49	46	
	Manganese	ppm	ASTM D5185m	450	<1	1	
	Magnesium	ppm	ASTM D5185m		822	726	
	Calcium	ppm	ASTM D5185m		878	958	
	Phosphorus	ppm	ASTM D5185m		901	829	
	Zinc	ppm	ASTM D5185m		1044	997	
	Sulfur	ppm	ASTM D5185m		2762	2620	
	Oxidation	Abs/.1mm	*ASTM D7414		30.4	28.8	
	Dese Niemelsen (DNI)	IN A KOLU	AOTH DOOOD	0 5	4.0	0.0	

6.2

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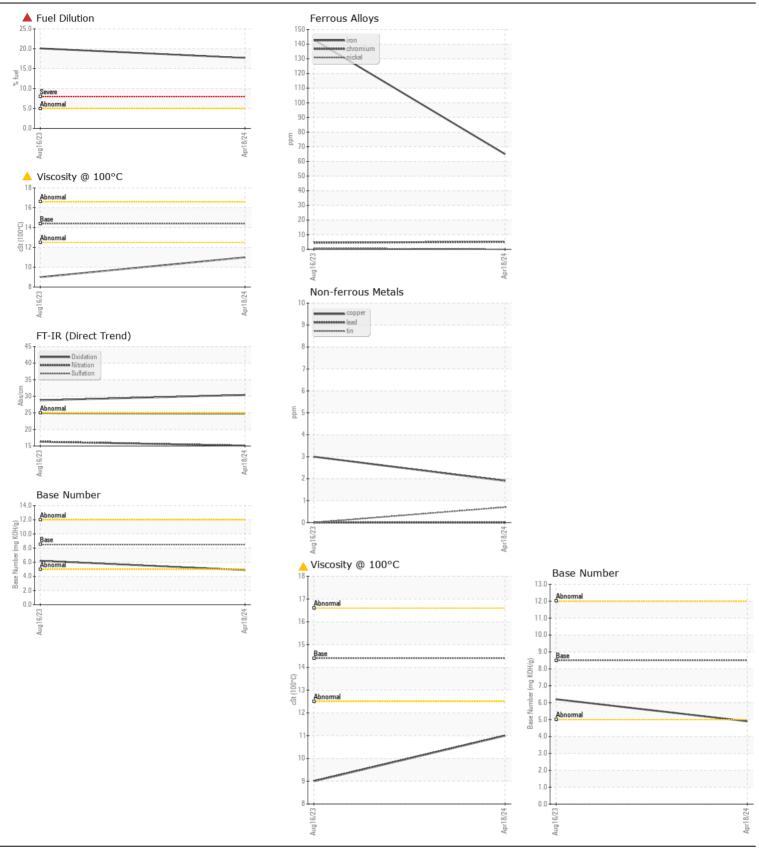
4.9

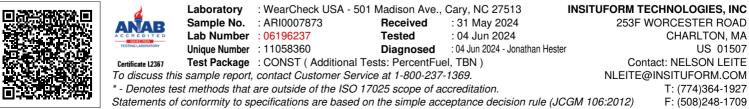
11.0

Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

Visc @ 100°C cSt





Contact/Location: NELSON LEITE - AR1650CHA Page 2 of 2