WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL ABNORMAL

LONGVIEW

FORD E41512

Component **Diesel Engine**

DECOMMENDATION	- .			11 0000			
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		TO50000836 05 Dec 2023		
	Sample Date Machine Age	bro	Client Info		1185		
	9	hrs	Client Info		350		
	Oil Age	hrs	Client Info		350		
	Filter Age Oil Changed	hrs	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Cheff iiilo		ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		34		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		5		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		1		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6		
	Potassium	ppm	ASTM D5185m	>20	2		
There is a moderate amount of fuel present in the oil.	Fuel	%	ASTM D3524	>5	7.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.6		
	Nitration	Abs/cm	*ASTM D7624	>20	12.0		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.7		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
TOTAL CONTRACTOR	Boron	ppm	ASTM D5185m		_ 17		
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	65	75		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	1060	35		
	Calcium	ppm	ASTM D5185m		2077		
	Phosphorus	ppm	ASTM D5185m		946		
	Zinc	ppm	ASTM D5185m		1141		
	Sulfur	ppm	ASTM D5185m		4848		
	Oxidation	Abs/.1mm	*ASTM D7414		20.9		
	Base Number (BN)				5.86		
		0 - 3				1	
	Visc @ 40°C	cSt	ASTM D445	118	4 79.3		
	Visc @ 40°C Visc @ 100°C	cSt cSt	ASTM D445 ASTM D445		▲ 79.3 ▲ 12.1		

Viscosity Index (VI) Scale ASTM D2270 143

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Certificate L2367

Laboratory Sample No. Lab Number

: TO50000836 : 06042289 : 10802897 **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 21 Dec 2023 Diagnosed : 28 Dec 2023 Diagnostician : Jonathan Hester

Test Package : MOB 2 (Additional Tests: FuelDilution, KV40, PercentFuel, VI) 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) **KLX ENERGY SERVICES**

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