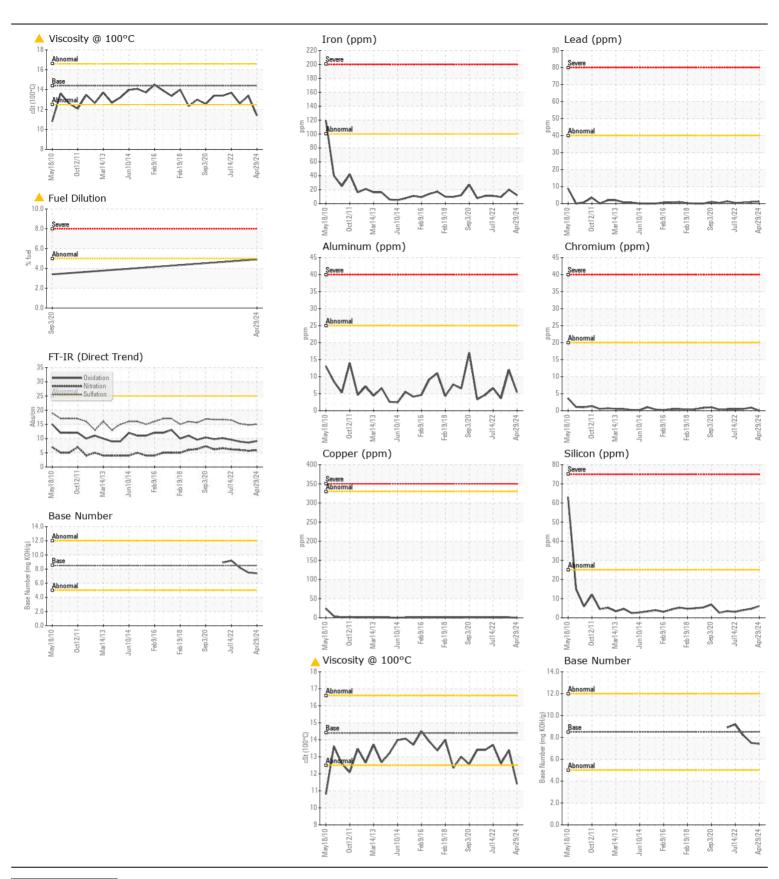
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL MARGINAL ABNORMAL

Machine Id

FORD M60936 Component Diosel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		DC0034111	DC0028302	DC002303
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		29 Apr 2024	09 Aug 2023	02 Feb 202
	Machine Age	mls	Client Info		17259	16878	16470
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	12	20	9
	Chromium	ppm	ASTM D5185m		0	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	<1	0
	Aluminum	ppm	ASTM D5185m	>25	5	12	4
	Lead	ppm	ASTM D5185m	>40	1	<1	<1
	Copper	ppm	ASTM D5185m	>330	<1	1	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	5	4
OUTAMINATION	Potassium	ppm	ASTM D5185m		2	5	2
Light fuel dilution occurring.	Fuel	%	ASTM D3524	>5	_ 4.9	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	5.9	5.7	6.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	15.0	14.8	15.2
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	<1	1	2
The DNI was the first and the state of the s	Boron	ppm	ASTM D5185m	250	24	<1	3
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 condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	0
	Molybdenum	ppm	ASTM D5185m	100	33	3	3
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		123	40	33
	Calcium	ppm	ASTM D5185m		2001	2243	2062
	Phosphorus	ppm	ASTM D5185m		836	893	808
	Zinc	ppm	ASTM D5185m		962	1071	940
	Sulfur	ppm	ASTM D5185m		3763	4390	3307
						0.0	0.0
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896		9.1 7.4	8.6 7.5	8.9 8.2







Certificate L2367

Report Id: MMFHYA [WUSCAR] 06187157 (Generated: 05/28/2024 08:05:32) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DC0034111 Lab Number : 06187157

Unique Number : 11043909

Received : 21 May 2024 **Tested** : 28 May 2024 Diagnosed

: 28 May 2024 - Wes Davis

Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

US 20781 Contact: June McClosky office@mmfleet.net

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