WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

DODGE M31712

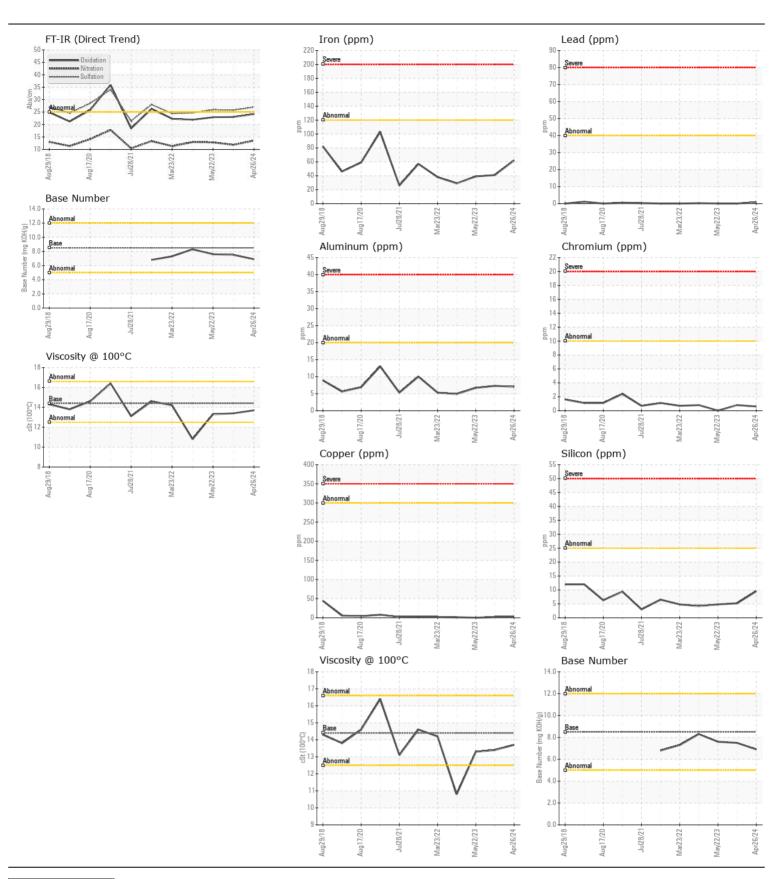
Component

Diesel Engine

Fluid

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		DC0034084	DC0032038	DC0026338
	Sample Date		Client Info		26 Apr 2024	06 Dec 2023	22 May 202
	Machine Age	mls	Client Info		169980	156317	138134
	Oil Age	mls	Client Info		5627	5942	4833
	Filter Age	mls	Client Info		5627	5942	4833
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ATTENTION	ABNORMA
WEAR	Iron	nnm	ASTM D5185m	<120	62	41	39
WLAN	Chromium	ppm	ASTM D5185m		<1	<1	0
All component wear rates are normal.	Nickel		ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m	>0	0	0	0
	Silver		ASTM D5185m	<u> </u>	0	0	0
	Aluminum	ppm	ASTM D5185m		7	7	7
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		2	2	<1
	Tin	ppm	ASTM D5185m		1	0	0
	Vanadium	ppm	ASTM D5185m	710	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		10	5 92	5 △ 61
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4		
	Fuel		WC Method		<1.0 NEG	▲ 3.1 NEG	▲ 4.1
	Water		WC Method	>0.1			NEG
	Glycol Soot %	%	*ASTM D7844		NEG 1.8	0.0 1.4	NEG 1.5
	Nitration	Abs/cm	*ASTM D7624	>20	13.5	11.8	12.8
	Sulfation	Abs/.1mm	*ASTM D7024		27.0	25.8	25.9
	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	NORMI
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	92	6 0
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		3	1	<1
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	-	0	<1	0
	Molybdenum	ppm	ASTM D5185m	100	70	66	64
	Manganese	ppm	ASTM D5185m		1	1	0
	Magnesium	ppm	ASTM D5185m		1070	972	1023
	Calcium	ppm	ASTM D5185m		1147	1040	1291
	Phosphorus	ppm	ASTM D5185m		1166	1100	1099
	Zinc	ppm	ASTM D5185m		1352	1310	1442
	Sulfur	ppm	ASTM D5185m		3346	2890	3751
	Oxidation	Abs/.1mm	*ASTM D7414	>25	24.2	23.0	22.9
	Base Number (BN)	I/OII/	A OTA A DOGGO	0.5	6.9	7.5	7.6







Certificate L2367

Laboratory Sample No.

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

: DC0034084 Lab Number : 06187163 Unique Number : 11043915

Received **Tested** Diagnosed

: 23 May 2024 Test Package : MOB 1 (Additional Tests: TBN)

: 23 May 2024 - Wes Davis

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 21 May 2024

M&M FLEET 5046 BUCHANAN ST. HYATTSVILLE, MD US 20781 Contact: June McClosky

office@mmfleet.net T: (301)779-4545

* - 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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