

WEAR	
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id							
DODGE M31708							
Diesel Engine							
DIESEL ENGINE OIL SAE 15W40 (GAL)							
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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		DC0034073	DC0032258	DC0026343
	Sample Date		Client Info		07 May 2024		13 Jun 2023
	Machine Age	mls	Client Info		168187	160394	138806
	Oil Age	mls	Client Info		0	5533	4235
	Filter Age	mls	Client Info Client Info		0 Ohenned	5533 Changed	4235 Changed
	Oil Changed Filter Changed		Client Info		Changed Changed	Changed Changed	Changed
	Sample Status		Cilent Inio		NORMAL	NORMAL	Changed NORMAL
							NOTIVIAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>120	31	45	43
	Chromium	ppm	ASTM D5185m	>10	<1	4	<1
	Nickel	ppm	ASTM D5185m	>5	0	<1	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	4	4
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		1	2	3
	Tin	ppm	ASTM D5185m	>10	<1	<1	<1
	Vanadium White Metal	ppm	ASTM D5185m *Visual	NONE	0 NONE	0 NONE	0 NONE
	Yellow Metal	scalar scalar	*Visual	NONE	NONE	NONE	NONE
		Scalai	visuai	NONL		NONL	NONL
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>25	5	6	5
	Potassium	ppm	ASTM D5185m	>20	<1	5	4
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	00	0.5	0.6	1.2
	Nitration	Abs/cm	*ASTM D7624		9.7	10.1	10.9
	Sulfation Silt	Abs/.1mm	*ASTM D7415 *Visual	NONE	21.1 NONE	22.0 NONE	26.3 NONE
	Debris	scalar scalar		NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	5	3
The BN result indicates that there is suitable alkalinity remaining in the		10.10.100	ASTM D5185m	250	3	0	0
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm					0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	0
	Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m	10	66	61	12
	Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	10 100	66 <1	61 <1	12 <1
	Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	10 100 450	66 <1 1023	61 <1 970	12 <1 187
	Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	10 100 450 3000	66 <1 1023 1146	61 <1 970 1075	12 <1 187 2037
	Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	10 100 450 3000 1150	66 <1 1023	61 <1 970	12 <1 187

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m 4250

ASTM D445 14.4

Abs/.1mm *ASTM D7414 >25

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

2919

19.6

7.5

13.5

3808

20.5

5.8

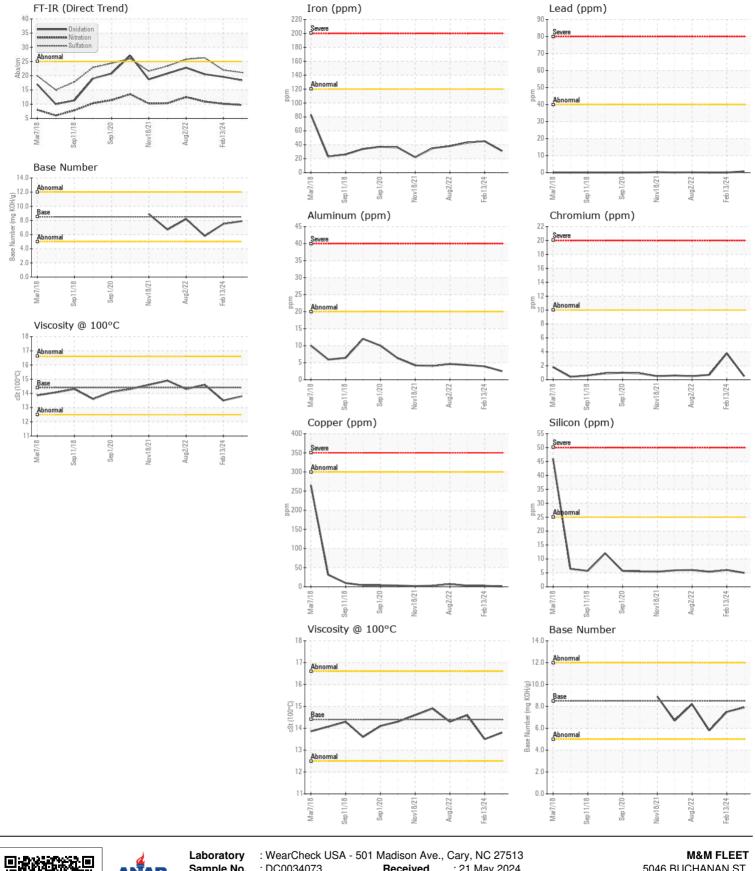
14.6

3357

18.4

7.9

13.8



Sample No. : DC0034073 Received 5046 BUCHANAN ST. : 21 May 2024 Lab Number : 06187173 HYATTSVILLE, MD Tested : 23 May 2024 : 23 May 2024 - Wes Davis US 20781 Unique Number : 11043925 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: June McClosky Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. office@mmfleet.net * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (301)779-4545 F: x: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: June McClosky - MMFHYA Page 2 of 2