

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

794M FREIGHTLINER M2106		Diesel Engine Fluid TIER 15W40 ( QTS)	
		<b>794M FREIGHTLINE</b>	R M2106
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0115279	GFL0072932	GFL0072885
Resample at the next service interval to monitor.	Sample Date		Client Info		17 Jun 2024	03 Apr 2023	10 Feb 2023
	Machine Age	hrs	Client Info		10988	10102	9823
	Oil Age	hrs	Client Info		55	279	700
	Filter Age	hrs	Client Info		55	279	700
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	<u>\</u> 90	20	11	21
	Chromium	ppm	ASTM D5185m		1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		5	0	2
	Lead	ppm	ASTM D5185m		<1	0	<1
	Copper	ppm	ASTM D5185m		1	<1	<1
	Tin	ppm	ASTM D5185m		0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	3	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	9	<1	3
	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>6	0.4	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.6	9.3
	Sulfation	Abs/.1mm	*ASTM D7415		19.4	19.3	20.6
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		7	4	2
	Boron	ppm	ASTM D5185m		10	4	5
The BN result indicates that there is suitable alkalinity remaining in the	Barium	ppm	ASTM D5185m		0	2	0
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5185m		59	56	62
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		877	878	901
	Calcium	ppm	ASTM D5185m		1109	1047	1135
	Phosphorus	ppm	ASTM D5185m		970	992	1035
	Zinc	ppm	ASTM D5185m		1228	1217	1255
	Sulfur	ppm	ASTM D5185m		2877	2900	3034
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	15.9	17.5
	Dees Number (DN)				0.0	~ ~	0.0

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445

Visc @ 100°C cSt

7.7

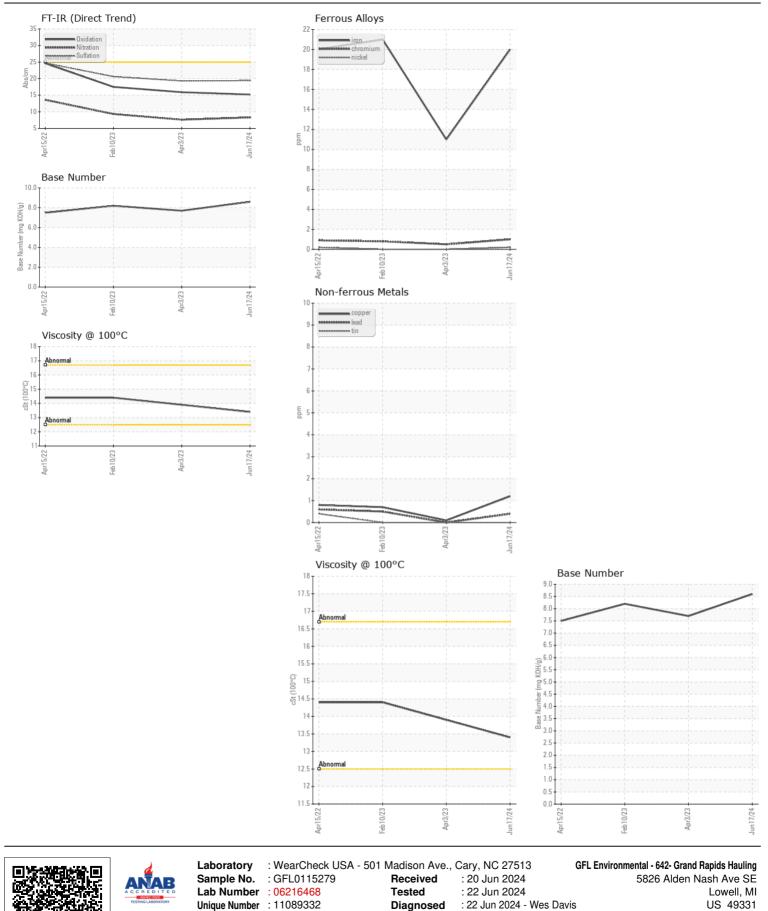
13.9

8.2

14.4

8.6

13.4



 Certificate L2367
 Test Package
 FLEET

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

Report Id: GFL642 [WUSCAR] 06216468 (Generated: 06/22/2024 00:20:51) Rev: 1

Submitted By: See also GFL642B - Jessica Shearer Page 2 of 2

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