

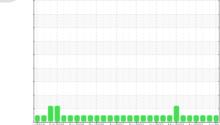
Component Diesel Engine

10963 FREIGHTLINER M2 106

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend

### NORMAL

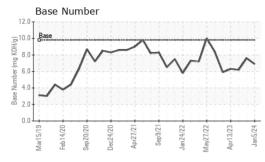


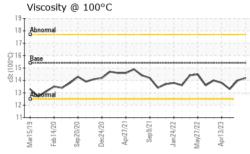


AGNOSIS	SAMPLE INFOR		method	limit/base		history1	history2
				iiiiii/base			· · · · · ·
ommendation	Sample Number		Client Info		GFL0103250	GFL0056743	GFL0087129
mple at the next service interval to monitor.	Sample Date	la un	Client Info		05 Jan 2024	04 Oct 2023	17 Jul 2023
r 	Machine Age	hrs hrs	Client Info		17455	16843	16278
omponent wear rates are normal.	Oil Age	nrs	Client Info		612 Channed	1131 Changed	566
amination	Oil Changed		Client Info		Changed NORMAL	Changed NORMAL	
e is no indication of any contamination in the	Sample Status				-		NORMAL
Condition	CONTAMINAT	ION	method	limit/base	current	history1	history2
BN result indicates that there is suitable	Fuel		WC Method		<1.0	<1.0	<1.0
nity remaining in the oil. The condition of the	Water		WC Method	>0.2	NEG	NEG	NEG
l is suitable for further service.	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>75	15	16	24
	Chromium	ppm	ASTM D5185m	>5	<1	<1	1
	Nickel	ppm	ASTM D5185m	>4	0	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>15	2	2	3
	Lead	ppm	ASTM D5185m	>25	0	0	2
	Copper	ppm	ASTM D5185m	>100	0	<1	1
	Tin	ppm	ASTM D5185m	>4	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	0	1	3
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	61	66	65
	Manganese	ppm	ASTM D5185m	0	0	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	977	997	1022
	Calcium	ppm	ASTM D5185m	1070	1096	1109	1157
	Phosphorus	ppm	ASTM D5185m	1150	1085	1083	1089
	Zinc	ppm	ASTM D5185m		1262	1330	1325
	Sulfur	ppm	ASTM D5185m	2060	3348	3259	3661
	CONTAMINAN	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4	7	14
	Sodium	ppm	ASTM D5185m		4	6	7
	Potassium	ppm	ASTM D5185m	>20	2	1	2
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>6	0.4	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	8.6	9.8	11.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	20.5	22.5
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	17.9	21.6

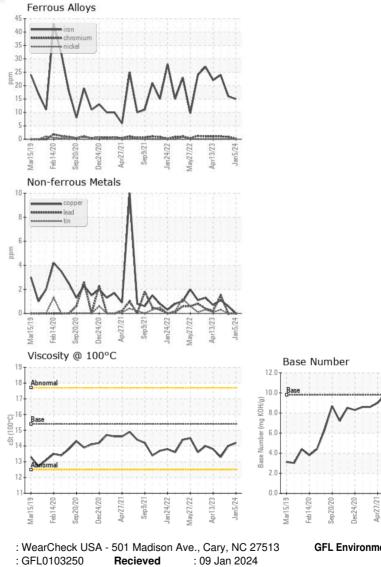


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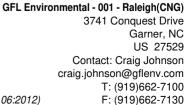




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.0	13.3
GRAPHS						



: 10 Jan 2024



Sep9/21

May27/22 Apr13/23

Jan 24/22



 Certificate 12367
 Test Package
 : FLEET

 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)

Diagnosed

Diagnostician : Wes Davis

: 06055775

Laboratory

Sample No.

Lab Number

Unique Number : 10821724

Jan5/24