

OIL ANALYSIS REPORT

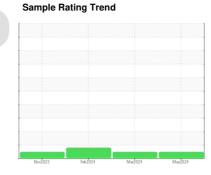


(BD56834) {UNASSIGNED} 914045 MACK TE64R

Component

Diesel Engine

TIER ONE 15W40 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

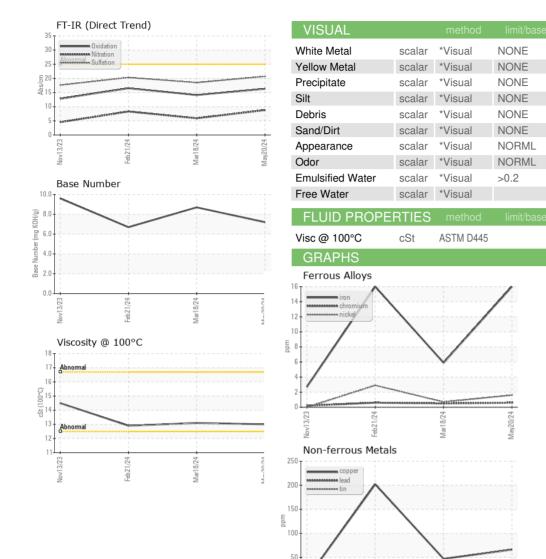
Fluid Condition

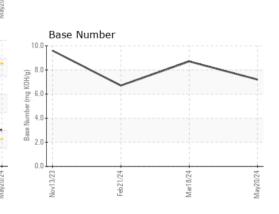
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number	111011	Client Info	mmbasc	GFL0115241	GFL0061428	GFL0061435
Sample Date		Client Info		20 May 2024	18 Mar 2024	21 Feb 2024
	nrs	Client Info		1779	1311	1170
-	nrs	Client Info		9	141	1
Oil Changed	113	Client Info		Changed	Changed	Changed
Sample Status		Oliciti IIIIo		NORMAL	NORMAL	MARGINAL
CONTAMINATIO	M	method	limit/base	current	history1	history2
Fuel	/ I N	WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method	<i>></i> 0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
	opm	ASTM D5185m	>120	16	6	16
Chromium p	opm	ASTM D5185m	>20	<1	<1	<1
	opm	ASTM D5185m	>5	2	<1	3
	opm	ASTM D5185m	>2	<1	<1	<1
	opm	ASTM D5185m	>2	<1	<1	1
Aluminum p	opm	ASTM D5185m	>20	2	2	2
Lead p	opm	ASTM D5185m	>40	1	<1	2
	opm	ASTM D5185m		66	47	<u>^</u> 202
	opm		>15	1	1	<1
	ppm	ASTM D5185m		0	<1	0
Cadmium p	opm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	opm	ASTM D5185m		5	21	11
	ppm	ASTM D5185m		<1	0	<1
	opm	ASTM D5185m		56	58	57
	ppm	ASTM D5185m		<1	<1	<1
	opm	ASTM D5185m		803	835	839
	opm	ASTM D5185m		1062	1107	1082
	opm	ASTM D5185m		936	1007	937
	opm	ASTM D5185m		1134	1135	1148
·	opm	ASTM D5185m		2598	3157	2547
CONTAMINANT	S	method	limit/base	current	history1	history2
	opm		>25	7	6	8
	ppm	ASTM D5185m		3	2	3
Potassium p	opm	ASTM D5185m	>20	5	2	4
INFRA-RED		method	limit/base	current	history1	history2
	%	*ASTM D7844	>4	0.6	0.2	0.5
Nitration A	Abs/cm	*ASTM D7624	>20	8.8	5.9	8.3
Sulfation A	Abs/.1mm	*ASTM D7415	>30	20.7	18.5	20.3
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation A	Abs/.1mm	*ASTM D7414	>25	16.3	14.1	16.5
Base Number (BN)	ng KOH/g	ASTM D2896		7.2	8.7	6.7
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NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

13.1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

12.9

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

13.0





Certificate 12367

Laboratory Sample No.

: GFL0115241 Lab Number : 06189991 Unique Number : 11046743

Test Package : FLEET

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

: 23 May 2024 : 31 May 2024 Diagnosed

Mar18/24

: 31 May 2024 - Wes Davis

GFL Environmental - 642- Grand Rapids Hauling

5826 Alden Nash Ave SE Lowell, MI US 49331

Contact: Chad Crosby ccrosby@gflenv.com T: (616)299-8425

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Viscosity @ 100°C

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