

OIL ANALYSIS REPORT

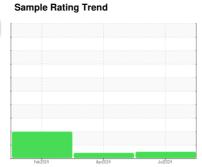


(BD75348) {UNASSIGNED} 814031 MACK LR64R

Component

Diesel Engine

TIER ONE 15W40 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

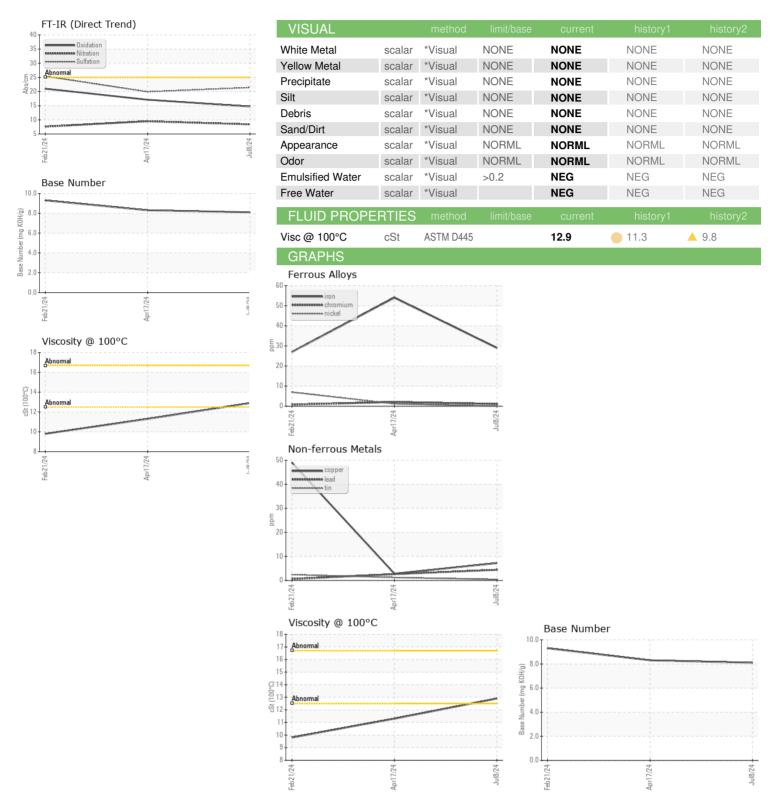
Fluid Condition

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

GAL)		Fel	2024	Apr2024 Jul203	24	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115230	GFL0115244	GFL0102218
Sample Date		Client Info		08 Jul 2024	17 Apr 2024	21 Feb 2024
Machine Age	hrs	Client Info		980	558	269
Oil Age	hrs	Client Info		79	28	269
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	ATTENTION	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	0.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	29	54	27
Chromium	ppm	ASTM D5185m	>20	1	2	<1
Nickel	ppm	ASTM D5185m	>5	0	1	7
Titanium	ppm	ASTM D5185m	>2	<1	2	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	7	6
Lead	ppm	ASTM D5185m	>40	4	3	<1
Copper	ppm	ASTM D5185m	>330	7	3	49
Tin	ppm	ASTM D5185m	>15	<1	1	2
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	9	305
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		56	83	110
Manganese	ppm	ASTM D5185m		0	1	4
Magnesium	ppm	ASTM D5185m		819	1229	709
Calcium	ppm	ASTM D5185m		1147	1544	1456
Phosphorus	ppm	ASTM D5185m		1013	1606	653
Zinc	ppm	ASTM D5185m		1180	1768	816
Sulfur	ppm	ASTM D5185m		2697	4923	2439
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	6	A 80
Sodium	ppm	ASTM D5185m		2	6	2
Potassium	ppm	ASTM D5185m	>20	2	4	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1.6	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.4	9.5	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4	19.9	25.4
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	17.1	21.0
Base Number (BN)	mg KOH/g	ASTM D2896		8.1	8.3	9.3
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Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06234724 Unique Number : 11123558

Test Package : FLEET

: GFL0115230

Received : 12 Jul 2024 **Tested** : 15 Jul 2024

Diagnosed : 15 Jul 2024 - Wes Davis

GFL Environmental - 642- Grand Rapids Hauling 5826 Alden Nash Ave SE

Lowell, MI US 49331 Contact: Josh Vanvolkinburg

jvanvolkinburg@gflenv.com T:

Certificate 12367 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)

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