

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

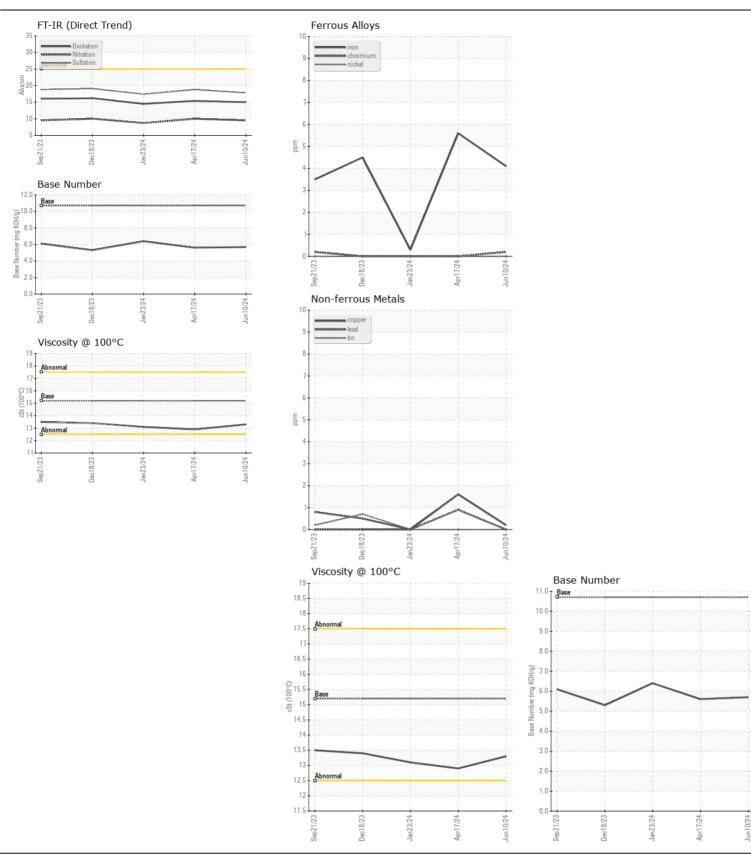


MACK 429117-SW4911

Diesel Engine

MOBIL DELVAC ELITE 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0111295	GFL0111303	GFL011135
	Sample Date		Client Info		10 Jun 2024	17 Apr 2024	23 Jan 202
	Machine Age	hrs	Client Info		12828	12476	11925
	Oil Age	hrs	Client Info		352	0	500
	Filter Age	hrs	Client Info		0	0	500
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>120	4	6	<1
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	0	0
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		3	4	3
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		<1	2	0
	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	nnm	ASTM D5185m	- 25	5	6	4
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	2	0
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	- 1	0.2	0.4	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	10.0	8.7
	Sulfation	Abs/.1mm	*ASTM D7024		17.8	18.8	17.4
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
THE CONDITION			40714 05405				
LUID CONDITION	Sodium	ppm	ASTM D5185m		3	4	3
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		74	52	115
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	1
	Molybdenum	ppm	ASTM D5185m		123	130	117
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m		657	687	622
	Calcium	ppm	ASTM D5185m		1180	1257	1146
	Phosphorus	ppm	ASTM D5185m		689	778	678
	Zinc	ppm	ASTM D5185m		827	868	758
	Sulfur	ppm	ASTM D5185m	0.5	2918	3826	2954
	Oxidation	Abs/.1mm	*ASTM D7414		15.0	15.4	14.5
	Base Number (BN)	mg KOH/g	ASTM D2896	10.7	5.7	5.6	6.4
	Visc @ 100°C	cSt	ASTM D445	4	13.3	12.9	13.1







Certificate L2367

Laboratory Sample No.

: GFL0111295 Lab Number : 06241405 Unique Number : 11130239 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jul 2024 **Tested** : 20 Jul 2024

Diagnosed : 20 Jul 2024 - Wes Davis

GFL Environmental - 981 - Port Arthur Hauling

1000 S Business Park Dr Port Arthur, TX US 77640

Contact: MICHAEL KAY

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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)