

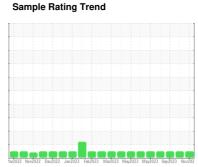
# **OIL ANALYSIS REPORT**



# MONTGOMERY **MACK 929110**

Component **Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- LTR)







### 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

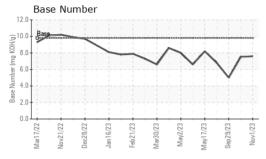
### **Fluid Condition**

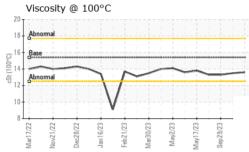
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087972	GFL0089874	GFL0089898
Sample Date		Client Info		01 Nov 2023	31 Oct 2023	29 Sep 2023
Machine Age	hrs	Client Info		17880	13535	11402
Oil Age	hrs	Client Info		4345	2056	11402
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron		ASTM D5185m	>120	11	19	16
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel		ASTM D5185m	>5	<1 <1	<1	<1
	ppm			0		0
Titanium Silver	ppm	ASTM D5185m ASTM D5185m		√ <1	<1 0	0
	ppm		>2			2
Aluminum	ppm	ASTM D5185m		2	12	
_ead	ppm	ASTM D5185m	>40	2	0	2
Copper	ppm	ASTM D5185m		0	1	3
Γin 	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	0	0
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	60	63	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	926	987	980
Calcium	ppm	ASTM D5185m	1070	1006	1069	1043
Phosphorus	ppm	ASTM D5185m	1150	1018	1020	993
Zinc	ppm	ASTM D5185m	1270	1176	1258	1279
Sulfur	ppm	ASTM D5185m	2060	2723	3270	2587
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	13	8
Sodium	ppm	ASTM D5185m		5	15	10
Potassium	ppm	ASTM D5185m	>20	<1	21	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.9	0.5
Vitration	Abs/cm	*ASTM D7624	>20	7.6	8.5	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	20.1	21.8
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	15.5	19.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	7.5	5.0
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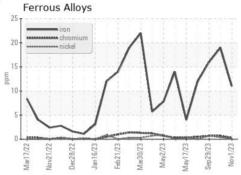


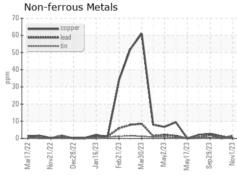


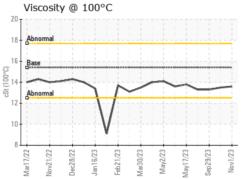
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

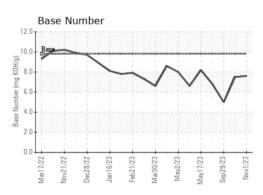
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.5	13.3

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10728740 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0087972 : 06000380

Received : 07 Nov 2023 Diagnosed : 13 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 955 - Montgomery

1121 Wilbanks St Montgomery, AL US 36108

Contact: LISA REEVES

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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