

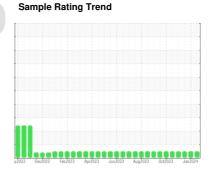
# **OIL ANALYSIS REPORT**



# MONTGOMERY **MACK 913008**

Component **Diesel Engine** 

PETRO CANADA DURON SHP 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

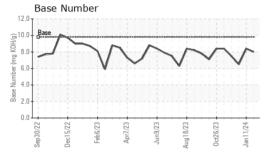
#### **Fluid Condition**

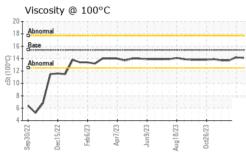
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0081895	GFL0081898	GFL0091310
Sample Date		Client Info		24 Jan 2024	11 Jan 2024	28 Dec 2023
Machine Age	hrs	Client Info		4241	4097	3462
Oil Age	hrs	Client Info		779	635	3462
Oil Changed		Client Info		Not Changd	Not Changd	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
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	6	5	14
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	3
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	1
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	2
Tin	ppm	ASTM D5185m	>15	<1	0	1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	• •	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	8	3
Barium	ppm		0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	61	63
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	961	973	1001
Calcium	ppm	ASTM D5185m	1070	1071	1102	1131
Phosphorus	ppm	ASTM D5185m	1150	1037	1084	981
Zinc	ppm	ASTM D5185m	1270	1245	1268	1304
Sulfur	ppm	ASTM D5185m	2060	3089	3150	2888
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	9
Sodium	ppm	ASTM D5185m		2	2	4
Potassium	ppm	ASTM D5185m	>20	11	8	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.2	0.6
Nitration	Abs/cm	*ASTM D7624	>20	7.7	6.6	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	19.1	21.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	15.3	18.6
CAIGUION	/100/.111111	, 10 I WI D / T   T	720	10.7	10.0	10.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	8.4	6.5



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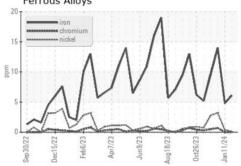


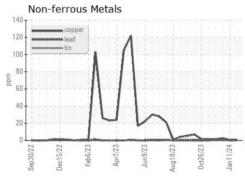
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

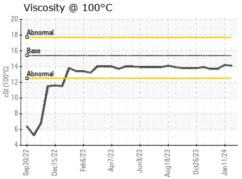
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.2	13.7

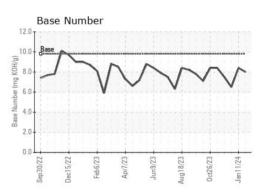
### **GRAPHS**

#### Ferrous Alloys













Certificate L2367

Laboratory Sample No. Test Package : FLEET

Lab Number Unique Number : 10848798

: GFL0081895 : 06072121

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 26 Jan 2024 Diagnosed : 29 Jan 2024

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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F: