

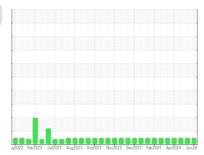
# **OIL ANALYSIS REPORT**



# **MONTGOMERY MACK 420042**

Diesel Engine

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



Sample Rating Trend



### 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

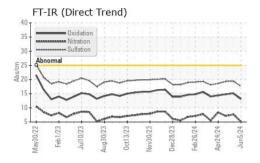
### **Fluid Condition**

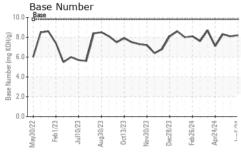
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

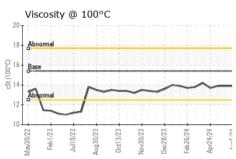
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118420	GFL0088029	GFL0088017
Sample Date		Client Info		05 Jun 2024	05 Jun 2024	10 May 2024
Machine Age	hrs	Client Info		9874	9871	9727
Oil Age	hrs	Client Info		1147	1144	1000
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	NC	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 METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	3	12	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	3	3	2
	ppm	ASTM D5185m	>40	<1	1	<1
	ppm	ASTM D5185m	>330	<1	4	3
	ppm	ASTM D5185m	>15	<1	2	1
	ppm	ASTM D5185m		0	0	<1
	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	64	58
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	1010	907	959	898
Calcium	ppm	ASTM D5185m	1070	1031	1125	1031
Phosphorus	ppm	ASTM D5185m	1150	1058	1165	1035
Zinc	ppm	ASTM D5185m	1270	1184	1284	1241
Sulfur	ppm	ASTM D5185m	2060	3055	3198	3133
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	6	4
Sodium	ppm	ASTM D5185m		0	<1	3
Potassium	ppm	ASTM D5185m	>20	3	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.5	0.4
<b>.</b>	Abs/cm	*ASTM D7624	>20	5.1	7.7	7.1
Nitration	100,011.					
	Abs/.1mm	*ASTM D7415	>30	17.6	19.4	19.3
	Abs/.1mm	*ASTM D7415 method	>30 limit/base	17.6 current	19.4 history1	19.3 history2
Sulfation FLUID DEGRADA	Abs/.1mm					



## **OIL ANALYSIS REPORT**



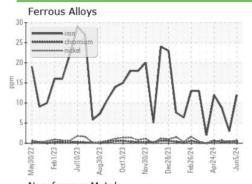


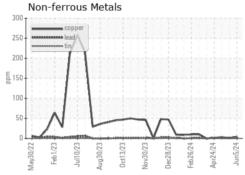


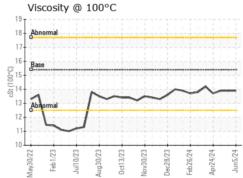
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

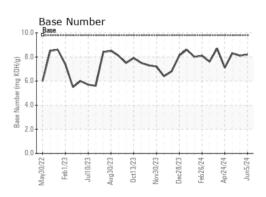
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.9	13.9

### **GRAPHS**













Laboratory Sample No. Unique Number : 11069746

: GFL0118420 Lab Number : 06202285

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

: 06 Jun 2024 **Tested** : 10 Jun 2024 Diagnosed : 10 Jun 2024 - Wes Davis

GFL Environmental - 955 - Montgomery 1121 Wilbanks St Montgomery, AL US 36108

Contact: LISA REEVES

Test Package : FLEET 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)

T:

F: