

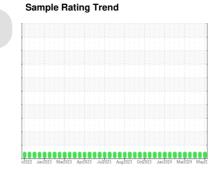
# **OIL ANALYSIS REPORT**



# **MONTGOMERY MACK 913016**

**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

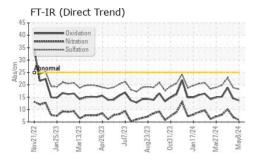
### **Fluid Condition**

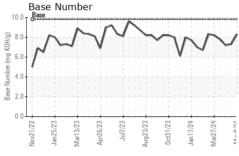
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

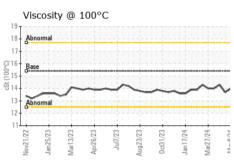
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088013	GFL0118453	GFL0083570
Sample Date		Client Info		08 May 2024	22 Apr 2024	11 Apr 2024
Machine Age	hrs	Client Info		5330	13292	2918
Oil Age	hrs	Client Info		5330	146	2918
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status		001160		NORMAL	NORMAL	NORMAL
CONTAMINA	TION	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 META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	6	7	15
Chromium	ppm		>20	<1	0	<1
Nickel			>5	<1	0	0
	ppm	ASTM D5185m				
Titanium	ppm	ASTM D5185m		<1	1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	0	3
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	60	64
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	865	1033	998
Calcium	ppm	ASTM D5185m	1070	974	1162	1116
Phosphorus	ppm	ASTM D5185m	1150	981	1039	1121
Zinc	ppm	ASTM D5185m	1270	1172	1318	1333
Sulfur	ppm	ASTM D5185m	2060	3050	3456	3541
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	4
Sodium	ppm	ASTM D5185m		3	4	5
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.4	0.7
Nitration	Abs/cm	*ASTM D7624	>20	5.8	7.0	10.1
Sulfation	Abs/.1mm	*ASTM D7024	>30	18.2	18.8	22.8
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation			>25		,	
CAIGAHOH	Abs/.1mm	*ASTM D7414	2 <b>C</b> O	13.7	14.5	18.9
Base Number (BN)	mg KOH/g	ASTM D2896	0.0	8.3	7.3	7.2



## **OIL ANALYSIS REPORT**



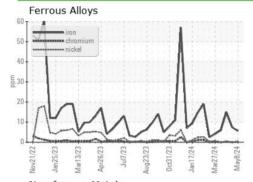


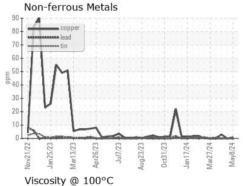


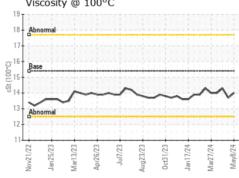
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

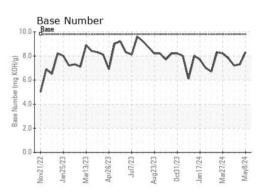
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.7	14.3	

### **GRAPHS**













Certificate 12367

Laboratory Sample No.

: GFL0088013 Lab Number : 06178549 Unique Number : 11029875

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 May 2024 **Tested** 

: 15 May 2024 Diagnosed : 15 May 2024 - 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)

Report Id: GFL955 [WUSCAR] 06178549 (Generated: 05/15/2024 12:53:10) Rev: 1

Submitted By: Lisa Reeves

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