

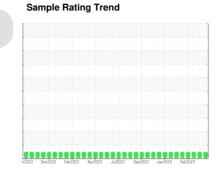
# **OIL ANALYSIS REPORT**



# **MONTGOMERY** MACK 920016-192537

**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

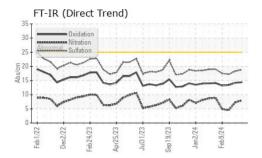
### **Fluid Condition**

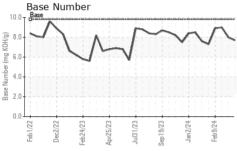
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

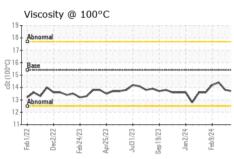
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0083566	GFL0115613	GFL0115582
Sample Date		Client Info		11 Apr 2024	27 Mar 2024	11 Mar 2024
Machine Age	hrs	Client Info		11871	11746	11626
Oil Age	hrs	Client Info		501	376	256
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
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	9	8	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	<1	1
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	2	<1	0
Tin	ppm	ASTM D5185m	>15	- <1	0	<1
Vanadium	ppm	ASTM D5185m	7.0	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	2	4
Barium	ppm		0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	53	59	57
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	845	1020	952
Calcium	ppm	ASTM D5185m	1070	980	1113	1049
Phosphorus	ppm	ASTM D5185m	1150	959	1087	1058
Zinc	ppm	ASTM D5185m	1270	1166	1307	1248
Sulfur	ppm	ASTM D5185m	2060	3204	3709	3636
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	3
Sodium	ppm	ASTM D5185m		4	2	2
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.6	0.5	0.1
Nitration	Abs/cm	*ASTM D7624		8.0	7.3	4.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	18.3	17.2
FLUID DEGRA			limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	14.2	13.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	8.0	9.0
LOSE MUHUEL (DIV)	THU INUIT/U	AO HVI DZ030	J.U	1.1	U.U	7.11



## **OIL ANALYSIS REPORT**



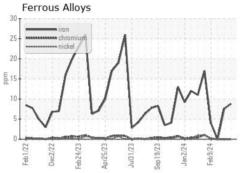


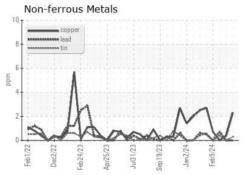


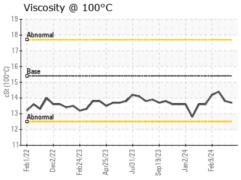
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

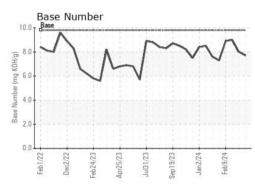
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.8	14.4	

### **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06147068

: GFL0083566 Unique Number : 10977146 Test Package : FLEET

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

: 12 Apr 2024 **Tested** : 15 Apr 2024 Diagnosed : 15 Apr 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] 06147068 (Generated: 04/15/2024 08:14:16) Rev: 1

Submitted By: Lisa Reeves

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