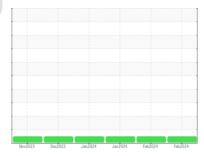


# **OIL ANALYSIS REPORT**

# (DQS409) MONTGOMERY **AUTOCAR 3846**

Component **Diesel Engine** 

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



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

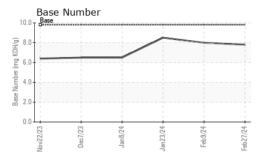
### **Fluid Condition**

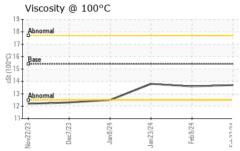
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Nov2023	Dec2023 Jan2024	Jan 2024 Feb 2024	Feb 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088650	GFL0088636	GFL0081865
Sample Date		Client Info		27 Feb 2024	09 Feb 2024	23 Jan 2024
Machine Age	hrs	Client Info		26491	16272	26179
Oil Age	hrs	Client Info		423	0	111
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	>165	10	8	8
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	4
Lead	ppm	ASTM D5185m	>150	2	2	2
Copper	ppm	ASTM D5185m	>90	<1	1	<1
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	3	6
Barium	ppm	ASTM D5185m	0	0	12	0
Molybdenum	ppm	ASTM D5185m	60	67	64	70
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1017	940	1132
Calcium	ppm	ASTM D5185m	1070	1112	1050	1204
Phosphorus	ppm	ASTM D5185m	1150	1034	1053	1225
Zinc	ppm	ASTM D5185m	1270	1318	1222	1449
Sulfur	ppm	ASTM D5185m	2060	3197	3455	4062
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	8	8	9
Sodium	ppm	ASTM D5185m		2	0	6
Potassium	ppm	ASTM D5185m	>20	2	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.2	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.7	6.3	5.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	18.5	17.9
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	14.2	13.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	8.0	8.5



# **OIL ANALYSIS REPORT**

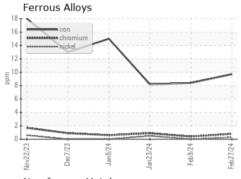


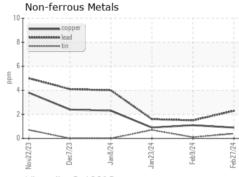


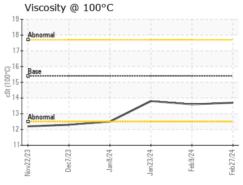
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

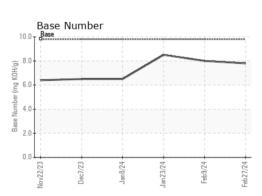
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.6	13.8

### **GRAPHS**













Certificate L2367

Laboratory Sample No.

: GFL0088650 Lab Number : 06102823

Unique Number : 10901053 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Feb 2024 **Tested** : 29 Feb 2024

Diagnosed : 29 Feb 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)

T:

F: