

OIL ANALYSIS REPORT

Sample Rating Trend

Mad015 Juni015 Juni015 Juni022 Augl022 Juni022 Mad023 Mayl023 Juni022 Juli023 Augl023

NORMAL



Machine Id **924027-260245**

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

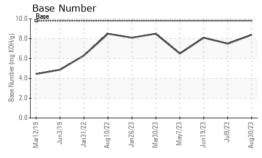
Fluid Condition

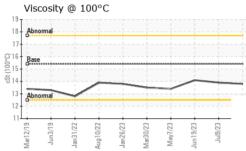
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Mw2019 Jun2019 Jun2022 Aug2022 Jun2023 Mw2023 Jun2023 Jun2023 Jun2023 Aug2023 Jun2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0074787	GFL0074767	GFL0074755
Sample Date		Client Info		30 Aug 2023	09 Jul 2023	19 Jun 2023
Machine Age	hrs	Client Info		13208	12972	8134
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	14	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	4	7
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m		2	<1	0
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m	710	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	46	70
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum		ASTM D5185m	60	62	36	39
•	ppm	ASTM D5185m	0	<1	<1	0
Manganese	ppm	ASTM D5185m	1010	861	499	544
Magnesium Calcium	ppm	ASTM D5185m	1070	1181	1718	1886
	ppm					
Phosphorus	ppm	ASTM D5185m	1150	1022	1066	1129
Zinc	ppm	ASTM D5185m	1270	1261	1312	1405
Sulfur	ppm	ASTM D5185m	2060	3679	4114	4444
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	4
Sodium	ppm	ASTM D5185m		5	4	3
Potassium	ppm	ASTM D5185m	>20	0	4	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.7	9.0	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	21.7	20.8
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	17.9	16.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	7.5	8.1
	- 0					



OIL ANALYSIS REPORT

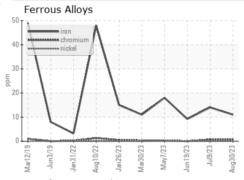


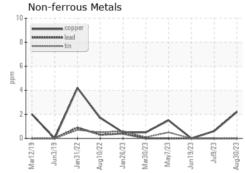


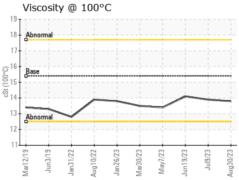
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

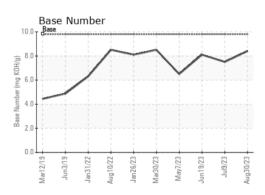
FLUID PROPE	KIIES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	14.1

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package : FLEET

: GFL0074787 : 05940103

: 10630715

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 Aug 2023 Diagnosed : 01 Sep 2023

Diagnostician : Wes Davis

GFL Environmental - 816 - WCA of South Arkansas

3083 Smackover Hwy El Dorado, AR US 71730

Contact: Mike Howell mike.howell@gflenv.com T:

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)

F: