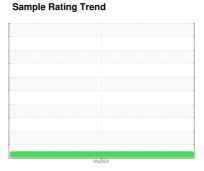


OIL ANALYSIS REPORT



Area **020** 929146 Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (38 QTS)





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

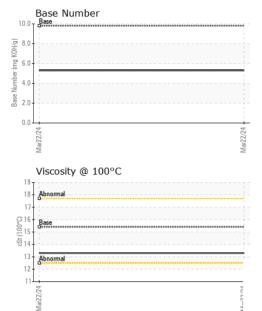
Fluid Condition

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

`	/			Mar2024		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103781		
Sample Date		Client Info		22 Mar 2024		
Machine Age	hrs	Client Info		7577		
Oil Age	hrs	Client Info		600		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS	;	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	38		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>5	2		
Titanium	ppm	ASTM D5185m		1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m		8		
Lead	ppm	ASTM D5185m	>40	2		
Copper	ppm	ASTM D5185m		6		
Tin	ppm	ASTM D5185m		2		
Vanadium	ppm	ASTM D5185m	710	<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES	P P P	method	limit/base	current	history1	history2
Boron	ppm		0	26		
Barium	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m	60	86		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m	1010	194		
Calcium	ppm		1070	2006		
Phosphorus	ppm	ASTM D5105III	1150	1087		
Zinc	ppm	ASTM D5185m	1270	1189		
Sulfur	ppm	ASTM D5185m	2060	3582		
CONTAMINANT		method	limit/base	current	history1	history2
Silicon	ppm		>25	24		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	6		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	9.3		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4		
FLUID DEGRAD	AT <u>ION</u>	method	limit/base	current	history1	history2
	Abs/.1mm	*ASTM D7414	>25	15.3		
	mg KOH/g	ASTM D7414	9.8	5.3		
Dage (DIV)	mg Norry	AO INI DZ000	0.0	3.3		



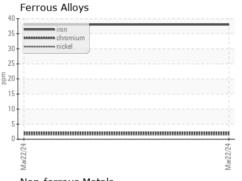
OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
FLUID PROPE	DTIES	method	limit/basa	ourront	hiotonyl	hiotory?
FLUID PROPE	RHES	method				history2

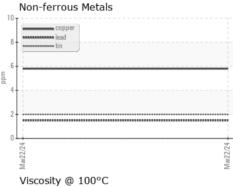
13.3

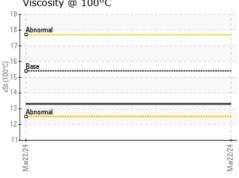
Visc @	100°C
GRA	PHS

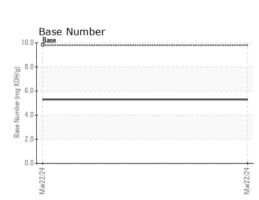


cSt

ASTM D445 15.4









Certificate L2367

Laboratory Sample No.

: GFL0103781 Lab Number : 06130197 Unique Number : 10949662

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Mar 2024 **Tested** Diagnosed

: 27 Mar 2024 : 29 Mar 2024 - Don Baldridge

GFL Environmental - 020 - Alamance

703 East Gilbreath St Graham, NC US 27253

Contact: Jorge Costa jorge.costa@gflenv.com

F: (336)229-0526

Test Package : FLEET 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: GFL020 [WUSCAR] 06130197 (Generated: 03/29/2024 15:16:59) Rev: 2