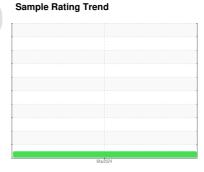


OIL ANALYSIS REPORT

020 Machine Id 420130

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (38 QTS)





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

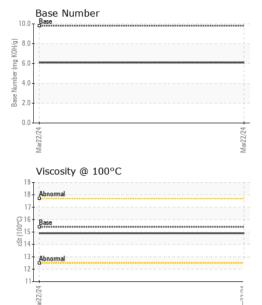
Fluid Condition

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

QTS)				Mar2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103780		
Sample Date		Client Info		22 Mar 2024		
Machine Age	hrs	Client Info		4427		
Oil Age	hrs	Client Info		600		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	85		
Chromium	ppm	ASTM D5185m	>20	3		
Nickel	ppm	ASTM D5185m	>4	1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	13		
Lead	ppm	ASTM D5185m	>40	2		
Copper	ppm	ASTM D5185m	>330	8		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	14		
Barium	ppm	ASTM D5185m	0	<1		
Molybdenum	ppm	ASTM D5185m	60	77		
Manganese	ppm	ASTM D5185m	0	2		
Magnesium	ppm	ASTM D5185m	1010	336		
Calcium	ppm	ASTM D5185m	1070	1974		
Phosphorus	ppm	ASTM D5185m	1150	1154		
Zinc	ppm	ASTM D5185m	1270	1301		
Sulfur	ppm	ASTM D5185m	2060	3461		
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14		
Sodium	ppm	ASTM D5185m		5		
Potassium	ppm	ASTM D5185m	>20	23		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.3		
Nitration	Abs/cm	*ASTM D7624	>20	13.0		
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.7		
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.1		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.1		



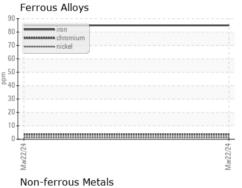
OIL ANALYSIS REPORT

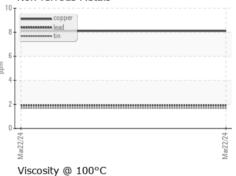


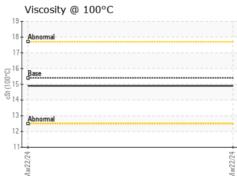
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML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

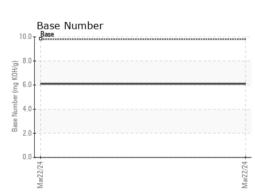
FLUID PROPE	RTIES	method			history2
Visc @ 100°C	cSt	ΔSTM D445	15.4	14 0	

GRAPHS











Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0103780 Lab Number : 06130198 Unique Number : 10949663

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

Tested Diagnosed : 29 Mar 2024 - Don Baldridge

: 27 Mar 2024 : 27 Mar 2024

GFL Environmental - 020 - Alamance 703 East Gilbreath St

Graham, NC US 27253 Contact: Jorge Costa

F: (336)229-0526

jorge.costa@gflenv.com

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)