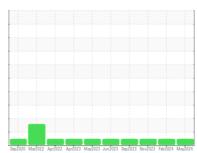


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **526012-7007**

Diesel Engine

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

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

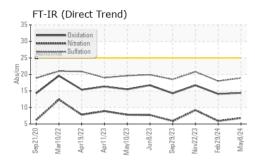
Fluid Condition

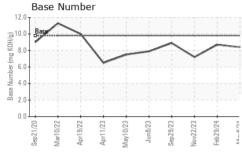
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

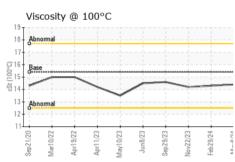
LTR) Soptio20 Mardo22 Aprilo23 Aprilo23 Marylo23 Soptio23 Marylo23 Fredio24 Marylo24						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094896	GFL0112793	GFL0101373
Sample Date		Client Info		08 May 2024	29 Feb 2024	22 Nov 2023
Machine Age	mls	Client Info		577931	577931	17669
Oil Age	mls	Client Info		16373	16373	0
Oil Changed		Client Info		N/A	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	30	18	40
Chromium	ppm	ASTM D5185m	>5	2	<1	4
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	6
Lead	ppm	ASTM D5185m	>150	3	<1	5
Copper	ppm	ASTM D5185m	>90	3	1	6
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	3
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	60	57	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	960	922	965
Calcium	ppm	ASTM D5185m	1070	1064	1015	1105
Phosphorus	ppm	ASTM D5185m	1150	1132	1014	997
Zinc	ppm	ASTM D5185m	1270	1276	1214	1240
Sulfur	ppm	ASTM D5185m	2060	3435	2893	3352
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	13	7	23
Sodium	ppm	ASTM D5185m		3	0	4
Potassium	ppm	ASTM D5185m	>20	3	0	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.2	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.8	5.9	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	18.0	20.8
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	14.1	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	8.7	7.2



OIL ANALYSIS REPORT



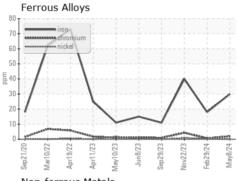


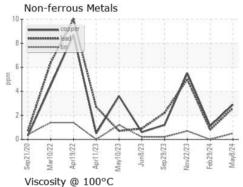


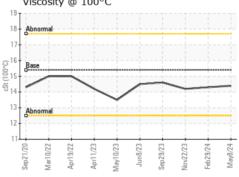
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

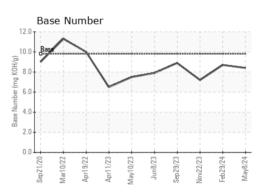
FLUID PROPI	ERIIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.3	14.2

GRAPHS













Certificate 12367

Laboratory

Sample No. : GFL0094896 Lab Number : 06174946

Unique Number : 11020999 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 May 2024 **Tested** : 10 May 2024

Diagnosed : 10 May 2024 - Wes Davis

GFL Environmental - 654 - Richmond Hauling

11800 Lewis Road Chester, VA US 23831

Contact: Jimmy Mayes jmayes@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)

Report Id: GFL654 [WUSCAR] 06174946 (Generated: 05/10/2024 18:14:34) Rev: 1

Submitted By: Matt oversee 654, 654S, 659 - Matthew Shinault

T:

F: