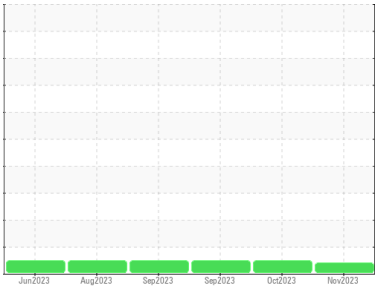
PROBLEM SUMMARY

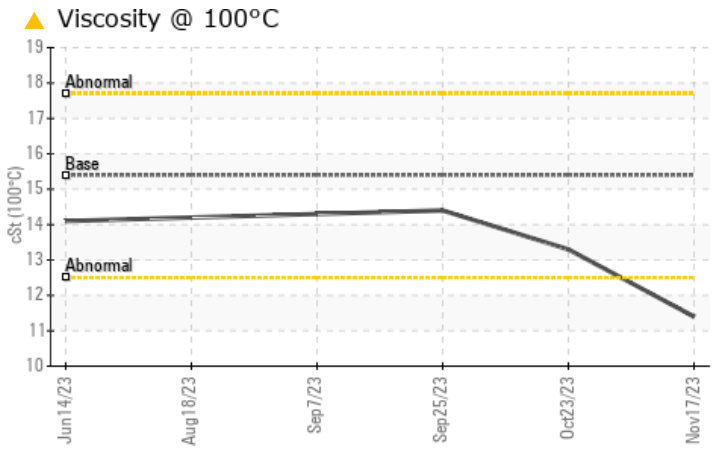
Area
{UNASSIGNED}
Machine Id
834023
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (8 GAL)

Sample Rating Trend



VISCOSITY

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ATTENTION**	NORMAL	NORMAL
Visc @ 100°C	cSt	ASTM D445	15.4	▲ **11.4**	13.3	14.4

Customer Id: GFL010
Sample No.: GFL0101204
Lab Number: 06011904
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

23 Oct 2023 Diag: Wes Davis

NORMAL

Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report

25 Sep 2023 Diag: Wes Davis

NORMAL

Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report

07 Sep 2023 Diag: Wes Davis

NORMAL

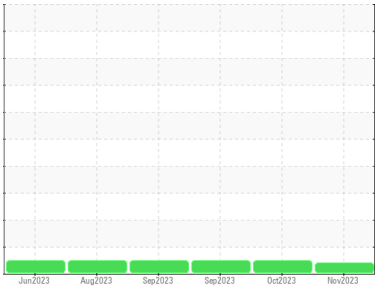
Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Area
{UNASSIGNED}
Machine Id
834023
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (8 GAL)

Sample Rating Trend



VISCOSITY

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0101204**	GFL0091429	GFL0094285
Sample Date		Client Info		**17 Nov 2023**	23 Oct 2023	25 Sep 2023
Machine Age	hrs	Client Info		**900**	740	615
Oil Age	hrs	Client Info		**285**	125	615
Oil Changed		Client Info		**Not Changd**	Not Changd	Changed
Sample Status				**ATTENTION**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	**37**	14	43
Chromium	ppm	ASTM D5185m	>20	**1**	<1	<1
Nickel	ppm	ASTM D5185m	>2	**0**	<1	<1
Titanium	ppm	ASTM D5185m	>2	**<1**	<1	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**4**	2	4
Lead	ppm	ASTM D5185m	>40	**<1**	<1	1
Copper	ppm	ASTM D5185m	>330	**1**	3	18
Tin	ppm	ASTM D5185m	>15	**<1**	<1	1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**0**	<1	0

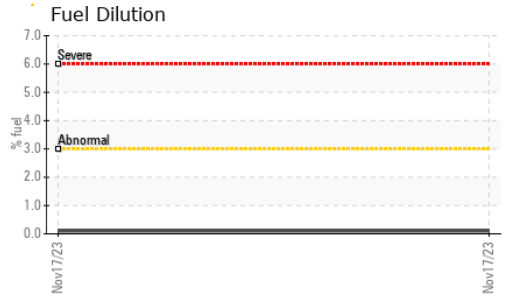
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**9**	6	3
Barium	ppm	ASTM D5185m	0	**0**	3	6
Molybdenum	ppm	ASTM D5185m	60	**57**	62	55
Manganese	ppm	ASTM D5185m	0	**<1**	2	12
Magnesium	ppm	ASTM D5185m	1010	**733**	813	816
Calcium	ppm	ASTM D5185m	1070	**967**	1084	1233
Phosphorus	ppm	ASTM D5185m	1150	**846**	958	671
Zinc	ppm	ASTM D5185m	1270	**1029**	1114	913
Sulfur	ppm	ASTM D5185m	2060	**2429**	3208	2319

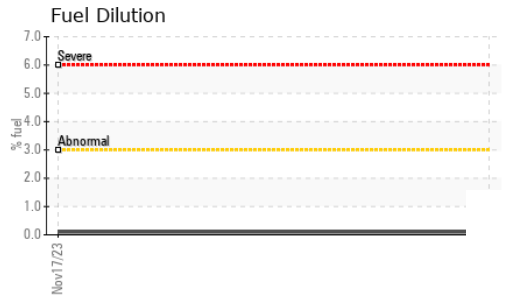
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**10**	8	36
Sodium	ppm	ASTM D5185m		**57**	3	5
Potassium	ppm	ASTM D5185m	>20	**3**	2	2
Fuel	%	ASTM D3524	>3.0	**0.1**	<1.0	<1.0

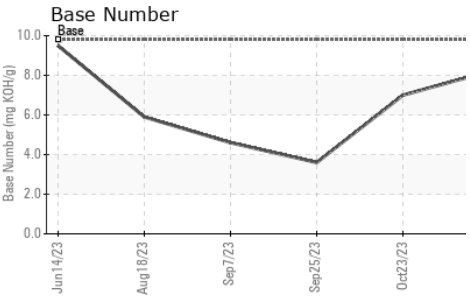
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	**0**	0	0
Nitration	Abs/cm	*ASTM D7624	>20	**4.8**	6.8	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	**16.7**	17.4	22.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**11.9**	13.5	22.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	**8.2**	7.0	3.6

OIL ANALYSIS REPORT



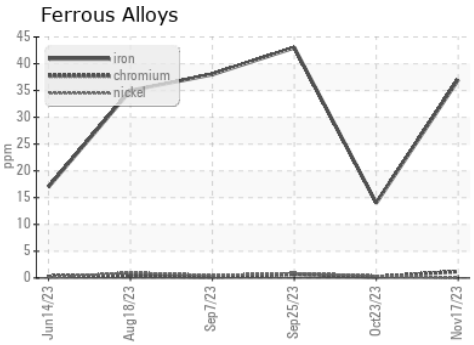


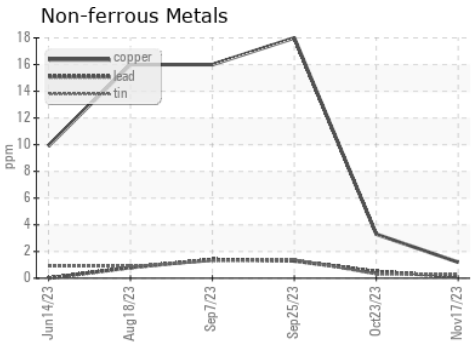


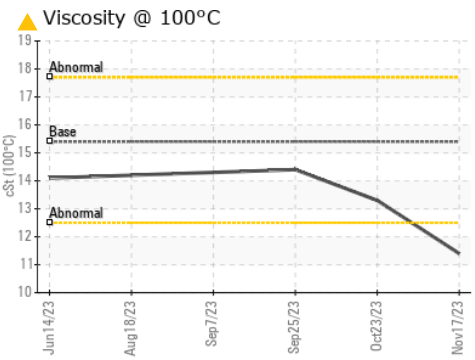
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

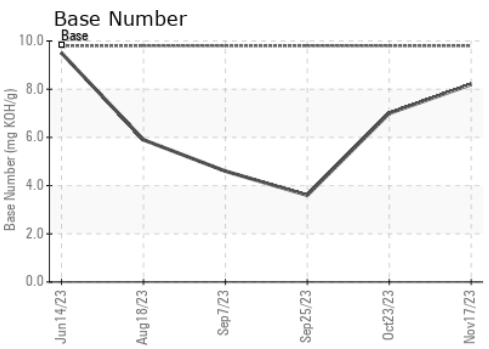
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	▲ **11.4**	13.3	14.4

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0101204 **Received** : 20 Nov 2023
Lab Number : 06011904 **Diagnosed** : 29 Nov 2023
Unique Number : 10751048 **Diagnostician** : Jonathan Hester
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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)

GFL Environmental - 010 - Stockbridge
1280 Rum Creek Parkway
Stockbridge, GA
US 30281
Contact: JOSHUA TINKER
joshuatinker@gflenv.com
T:
F:

Report Id: GFL010 [WUSCAR] 06011904 (Generated: 11/29/2023 23:59:03) Rev: 1

Submitted By: JOSHUA TINKER