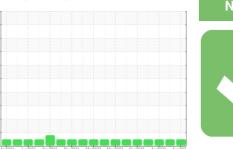


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 411013 Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (44 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

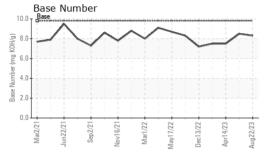
Fluid Condition

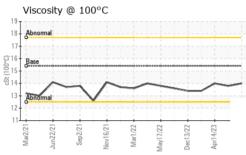
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

14 3111 13 14 40 (4	,	/lar2021 Jun2	021 Sep2021 Nov2021	Mar2022 May2022 Dec2022 Apr2	023 Aug202	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0088552	GFL0083304	GFL0069414
Sample Date		Client Info		22 Aug 2023	29 Jun 2023	14 Apr 2023
Machine Age	hrs	Client Info		3085	3085	177
Oil Age	hrs	Client Info		407	576	3085
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	>3.0	<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	>120	8	5	6
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	1
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	1	1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	0	8
Barium	ppm	ASTM D5185m	0	0	14	0
Molybdenum	ppm	ASTM D5185m	60	88	46	61
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1395	743	918
Calcium	ppm	ASTM D5185m	1070	1615	852	1150
Phosphorus	ppm	ASTM D5185m	1150	1532	806	1055
Zinc	ppm	ASTM D5185m	1270	1864	1038	1267
Sulfur	ppm	ASTM D5185m	2060	4909	2854	3809
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	2	1
Sodium	ppm	ASTM D5185m		2	<1	1
Potassium	ppm	ASTM D5185m	>20	7	5	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.7	7.9	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	19.9	16.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	15.4	13.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	8.5	7.5



OIL ANALYSIS REPORT

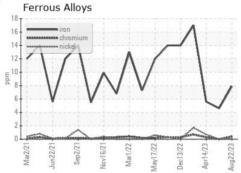


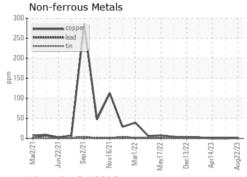


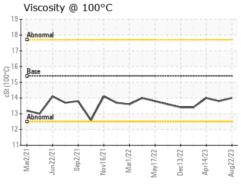
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

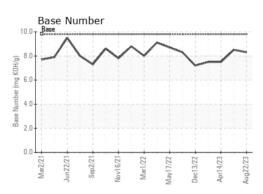
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.8	14.0

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0088552 : 05930732

: 10616003 Test Package : FLEET

Received : 22 Aug 2023 : 23 Aug 2023 Diagnosed

Diagnostician : Sean Felton

GFL Environmental - 017 - Durham

148 Stone Park Court Durham, NC US 27703

Contact: William Russel

william.russell@gflenv.com T:

F: (919)598-1852

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)