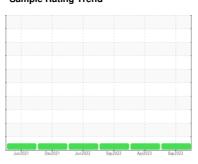


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



724008-511

Component

Diesel Engine

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

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

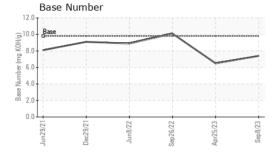
Fluid Condition

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

GAL) Juni 2021						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092913	GFL0068202	GFL0055909
Sample Date		Client Info		08 Sep 2023	25 Apr 2023	26 Sep 2022
Machine Age	hrs	Client Info		38968	38384	37635
Oil Age	hrs	Client Info		0	0	20
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<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	>140	95	89	7
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>12	2	3	1
Lead	ppm	ASTM D5185m	>20	4	0	0
Copper	ppm	ASTM D5185m	>50	4	5	<1
Tin	ppm	ASTM D5185m	>4	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	11	56	89
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	17	13
Manganese	ppm	ASTM D5185m	0	1	1	<1
Magnesium	ppm	ASTM D5185m	1010	980	787	652
Calcium	ppm	ASTM D5185m	1070	1265	1505	1356
Phosphorus	ppm	ASTM D5185m	1150	1003	784	733
Zinc	ppm	ASTM D5185m	1270	1247	945	866
Sulfur	ppm	ASTM D5185m	2060	3321	3366	3868
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	17	8
Sodium	ppm	ASTM D5185m		4	4	1
Potassium	ppm	ASTM D5185m	>20	3	1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.4	1.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.5	6.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.9	19.4
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	13.8	12.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.4	6.5	10.1



OIL ANALYSIS REPORT

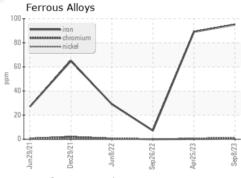


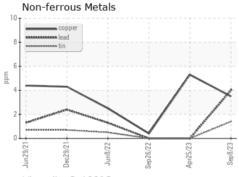
Apr25/23

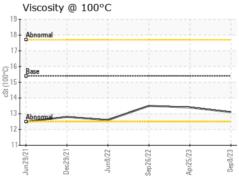
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

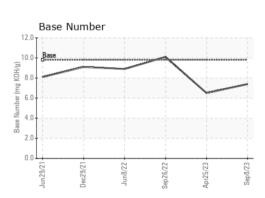
FLUID PROPE	EKIIES	method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.4	13.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10647964

: GFL0092913 : 05952005

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Sep 2023 Diagnosed Diagnostician : Wes Davis

: 18 Sep 2023

GFL Environmental - 641 - Alpena 1241 KING SETTLEMENT RD

ALPENA, MI US 49707

Contact: DYLAN TOLAN dylan.tolan@gflenv.com T: (989)854-7203

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: GFL641 [WUSCAR] 05952005 (Generated: 09/18/2023 11:15:52) Rev: 1

Submitted By: GFL463 and GFL641 - DYLAN TOLAN