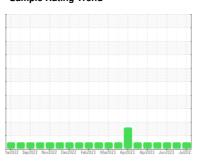


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **426120-381**

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

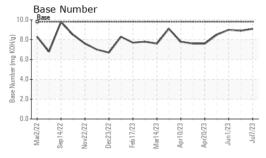
Fluid Condition

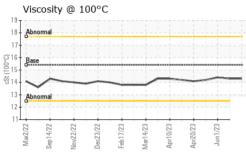
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		far2022 Sep202	22 Nov2022 Dec2022 Feb2	023 Mar2023 Apr2023 Apr2023 Ju	n2023 Jul202:	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0070606	GFL0087810	GFL0081173
Sample Date		Client Info		07 Jul 2023	19 Jun 2023	01 Jun 2023
Machine Age	hrs	Client Info		16095	15965	1522
Oil Age	hrs	Client Info		200	400	600
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>100	5	4	2
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>4	0	1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		2	<1	<1
Lead	ppm	ASTM D5185m	>40	2	1	0
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m	>10	<1	0	0
Cadmium		ASTM D5185m		0	0	0
	ppm					-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	59	56
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	965	1021	928
Calcium	ppm	ASTM D5185m	1070	1051	1058	1057
Phosphorus	ppm	ASTM D5185m	1150	1011	1102	995
Zinc	ppm	ASTM D5185m	1270	1251	1369	1223
Sulfur	ppm	ASTM D5185m	2060	3640	4001	3695
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	2
Sodium	ppm	ASTM D5185m		3	3	3
Potassium	ppm	ASTM D5185m	>20	4	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.7	6.6	5.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	19.5	18.7
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	14.9	14.2
Base Number (BN)	mg KOH/g		9.8	9.1	8.9	9.0
Dago Harribor (DIN)	my Normy	AO I WI DEUJU	0.0	V. 1	0.0	0.0



OIL ANALYSIS REPORT

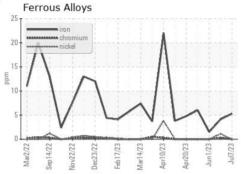


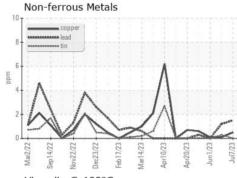


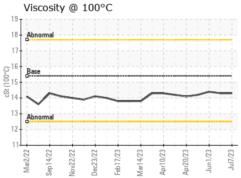
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

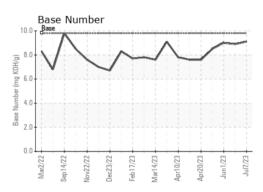
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.3	14.4

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10552957

: GFL0070606 : 05897147

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Jul 2023 Diagnosed : 13 Jul 2023

Diagnostician : Wes Davis

GFL Environmental - 166 - Phenix City

18 Old Brickyard Rd Phenix City, AL US 36869

Contact: EDWARD CASHMAN

ecashman@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: GFL166 [WUSCAR] 05897147 (Generated: 07/13/2023 15:41:14) Rev: 1

Submitted By: DARRIN WRIGHT

T:

F: