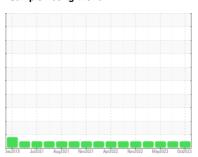


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



10952 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 QTS)

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.

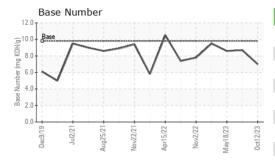
Fluid Condition

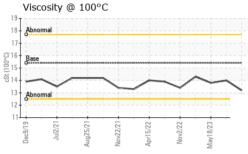
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QTS) Duck2019 Jul2021 Aug/2021 Nev/2021 Nev/2022 Nev/2022 May/2023 0-c/2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0090109	GFL0090098	GFL0070766
Sample Date		Client Info		12 Oct 2023	03 Oct 2023	18 May 2023
Machine Age	hrs	Client Info		82800	82658	82658
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
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	28	3	6
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	0	<1
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	4	3	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	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	9	9	8
Barium	ppm	ASTM D5185m	0	10	0	0
Molybdenum	ppm	ASTM D5185m	60	62	61	57
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	764	970	801
Calcium	ppm	ASTM D5185m	1070	1009	1095	1054
Phosphorus	ppm	ASTM D5185m	1150	919	1023	887
Zinc	ppm	ASTM D5185m	1270	1070	1257	1090
Sulfur	ppm	ASTM D5185m	2060	2640	3303	2840
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14	2	2
Sodium	ppm	ASTM D5185m		23	1	6
Potassium	ppm	ASTM D5185m	>20	7	<1	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.7	4.6	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	16.7	19.5
FLUID DEGRA						
I LOID DEGITAL	NOITAC	method	limit/base	current	history1	history2
Oxidation	DATION Abs/.1mm	*ASTM D7414	limit/base >25	current 15.1	history1 12.4	history2 15.4
					•	



OIL ANALYSIS REPORT

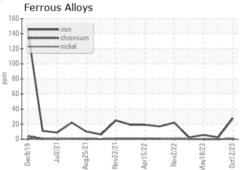


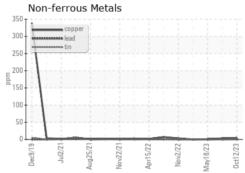


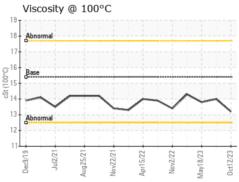
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

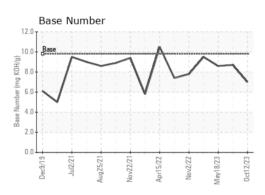
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	14.0	13.8	

GRAPHS











Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10698412 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0090109 : 05981117

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received : 17 Oct 2023 Diagnosed : 18 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 030 - Conway Myrtle Beach

3010 HWY 378 Conway, SC US 29527

Contact: CHET STROSCHINE

cstroschine@gflenv.com T:

* - 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)

F: