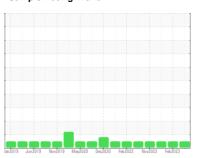


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **928079-260344**

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

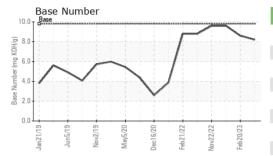
Fluid Condition

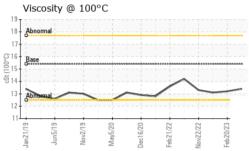
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Jan2019 Jun2	019 Nov2019 May2020	Dec2020 Feb2022 Nov2022	Feb 2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0099974	GFL0062956	GFL0062994	
Sample Date		Client Info		10 Nov 2023	20 Feb 2023	09 Dec 2022	
Machine Age	hrs	Client Info		15442	14374	0	
Oil Age	hrs	Client Info		600	0	0	
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	29	14	11	
Chromium	ppm	ASTM D5185m	>20	<1	0	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	0	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>3	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	6	3	1	
Lead	ppm	ASTM D5185m	>40	<1	0	0	
Copper	ppm	ASTM D5185m	>330	1	0	<1	
Tin	ppm	ASTM D5185m	>15	0	0	0	
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	10	2	2	
Barium	ppm	ASTM D5185m	0	8	0	0	
Molybdenum	ppm	ASTM D5185m	60	54	63	59	
Manganese	ppm	ASTM D5185m	0	<1	0	0	
Magnesium	ppm	ASTM D5185m	1010	805	995	867	
Calcium	ppm	ASTM D5185m	1070	1072	1124	1090	
Phosphorus	ppm	ASTM D5185m	1150	978	1055	1005	
Zinc	ppm	ASTM D5185m	1270	1115	1343	1174	
Sulfur	ppm	ASTM D5185m	2060	3377	3577	3531	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	7	6	3	
Sodium	ppm	ASTM D5185m		0	3	0	
Potassium	ppm	ASTM D5185m	>20	2	2	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	8.1	7.8	8.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.0	20.3	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	14.8	15.7	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	8.6	9.6	



OIL ANALYSIS REPORT



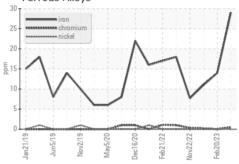


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

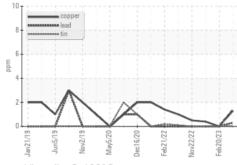
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.2	13.1

GRAPHS

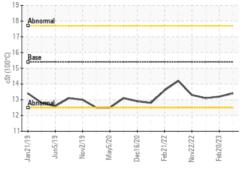
Ferrous Alloys

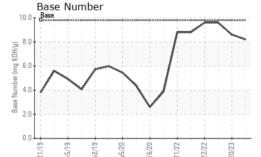
















Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number**

: GFL0099974 : 06006664 : 10740426 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Nov 2023

Diagnosed : 14 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 837 - Harrison TS

22820 S State Route 291 Harrisonville, MO

US 64701 Contact: BRYAN SWANSON

bryanswanson@gflenv.com T:

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)

F: