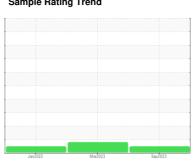


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **211005-632125**

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- G

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

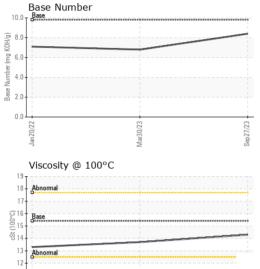
Fluid Condition

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

GAL)							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0093255	GFL0074179	GFL0030791	
Sample Date		Client Info		27 Sep 2023	30 Mar 2023	20 Jan 2022	
Machine Age	mls	Client Info		137233	2669	1558	
Oil Age	mls	Client Info		137233	2669	0	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	ABNORMAL	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	13	59	46	
Chromium	ppm	ASTM D5185m	>20	<1	3	2	
Nickel	ppm	ASTM D5185m	>4	0	<1	<1	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	<1	
Aluminum	ppm	ASTM D5185m	>20	7	△ 67	36	
Lead	ppm	ASTM D5185m	>40	0	0	<1	
Copper	ppm	ASTM D5185m	>330	<1	2	4	
Tin	ppm	ASTM D5185m	>15	0	<1	<1	
Antimony	ppm	ASTM D5185m				<1	
Vanadium	ppm	ASTM D5185m		<1	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	2	0	5	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	62	62	59	
Manganese	ppm	ASTM D5185m	0	<1	1	<1	
Magnesium	ppm	ASTM D5185m	1010	1008	956	970	
Calcium	ppm	ASTM D5185m	1070	1249	1103	1103	
Phosphorus	ppm	ASTM D5185m	1150	1059	993	1003	
Zinc	ppm	ASTM D5185m	1270	1313	1257	1256	
Sulfur	ppm	ASTM D5185m	2060	3015	2918	2978	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	10	10	
Sodium	ppm	ASTM D5185m		3	3	2	
Potassium	ppm	ASTM D5185m	>20	11	141	90	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	1.2	0.9	
Nitration	Abs/cm	*ASTM D7624	>20	8.5	13.3	11.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	25.1	24.1	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	23.1	21.9	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	6.8	7.1	



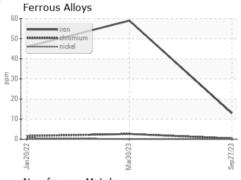
OIL ANALYSIS REPORT

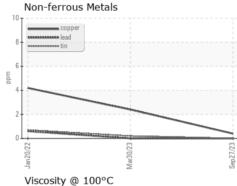


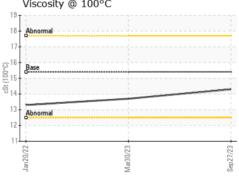
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

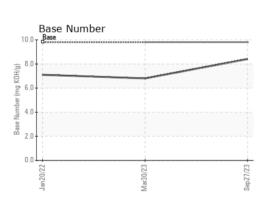
	ERITES	method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	13.7	13.3

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10675269

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0093255 : 05968718

Received : 04 Oct 2023 Diagnosed : 04 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 865 - East Mount Hauling 7213 East Mount Houston Road

Houston, TX US 77050

Contact: Saul Castillo saul.castillo@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: