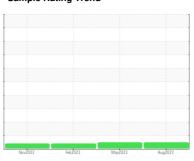


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **813015**

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.

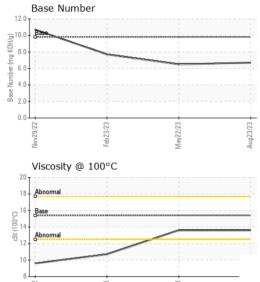
Fluid Condition

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

GAL)		Nov202	2 Feb 2023	May2023 Au	ug2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0075046	GFL0075094	GFL0075079	
Sample Date		Client Info		23 Aug 2023	22 May 2023	23 Feb 2023	
Machine Age	hrs	Client Info		1702	1153	522	
Oil Age	hrs	Client Info		549	631	522	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	ATTENTION	
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	21	24	42	
Chromium	ppm	ASTM D5185m	>20	<1	1	1	
Nickel	ppm	ASTM D5185m	>4	2	5	17	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>3	<1	<1	1	
Aluminum	ppm	ASTM D5185m	>20	4	<1	5	
Lead	ppm	ASTM D5185m	>40	0	0	<1	
Copper	ppm	ASTM D5185m	>330	80	108	232	
Tin	ppm	ASTM D5185m	>15	1	2	4	
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	5	10	204	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	64	65	112	
Manganese	ppm	ASTM D5185m	0	<1	1	4	
Magnesium	ppm	ASTM D5185m	1010	1019	970	769	
Calcium	ppm	ASTM D5185m	1070	1151	1142	1408	
Phosphorus	ppm	ASTM D5185m	1150	1025	932	715	
Zinc	ppm	ASTM D5185m	1270	1316	1269	875	
Sulfur	ppm	ASTM D5185m	2060	3114	2972	2795	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	7	9	53	
Sodium	ppm	ASTM D5185m		4	3	4	
Potassium	ppm	ASTM D5185m	>20	<1	2	6	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.7	0.7	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.6	7.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	21.4	17.2	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	17.7	12.8	
Base Number (BN)	mg KOH/g			6.7	6.5	7.7	
Dago (Marinoci (DIV)	mg normg	, 10 THI D2000	0.0	0	0.0	1.1	



OIL ANALYSIS REPORT



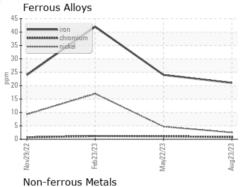
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
FLUID PROPE	RTIFS	method	limit/base	current	historv1	historv2

13.6

13.6

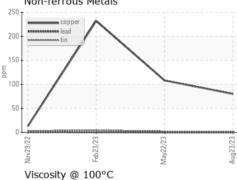
10.7

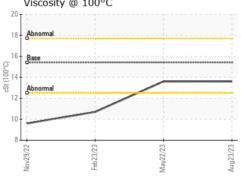
Visc @ 100°C	
GRAPHS	

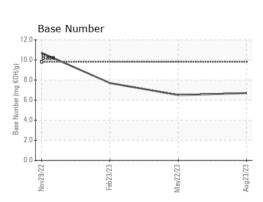


cSt

ASTM D445 15.4











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10619312 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0075046 : 05934041

Received : 24 Aug 2023 Diagnosed : 25 Aug 2023 Diagnostician : Wes Davis

GFL Environmental - 683 - Ruckersville Hauling

261 INDUSTRIAL DR Ruckersville, VA US 22698 Contact: Jaf Finney jfinney@gflenv.com T: (434)990-4972

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)