

OIL ANALYSIS REPORT

Sample Rating Trend

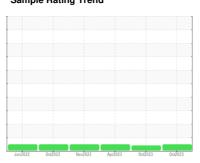
NORMAL



Machine Id **526029-651103**

Component **Diesel Engine**

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





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

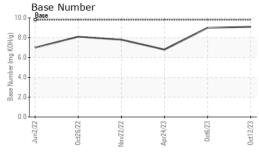
Fluid Condition

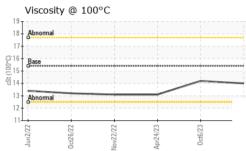
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

14 3111 13W 1 0 (G/12)	Jun2022	Oct2022 Nov2022	Apr2023 0ct2023	0ct2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0098388	GFL0098371	GFL0079267
Sample Date		Client Info		12 Oct 2023	06 Oct 2023	24 Apr 2023
Machine Age	hrs	Client Info		12714	12720	12458
Oil Age	hrs	Client Info		700	262	639
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>120	3	4	26
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	7
Lead	ppm	ASTM D5185m	>40	0	0	2
Copper	ppm	ASTM D5185m	>330	<1	<1	4
Tin	ppm	ASTM D5185m	>15	0	0	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	1	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	57	59
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	904	963	954
Calcium	ppm	ASTM D5185m	1070	973	1004	999
Phosphorus	ppm	ASTM D5185m	1150	950	984	996
Zinc	ppm	ASTM D5185m	1270	1184	1212	1258
Sulfur	ppm	ASTM D5185m	2060	3297	3071	3196
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	11	16
Sodium	ppm	ASTM D5185m		<1	2	4
Potassium	ppm	ASTM D5185m	>20	2	1	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	4.8	4.8	8.8
INILIALIOII						
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	17.3	20.3
			>30 limit/base	17.3 current	17.3 history1	20.3 history2
Sulfation						



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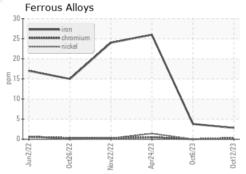


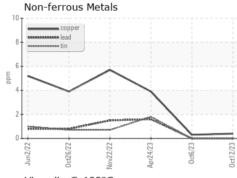


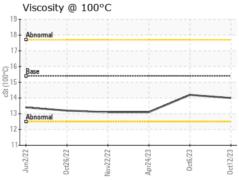
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	NONE
Sand/Dirt	scalar	*Visual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

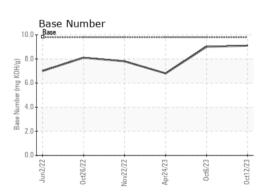
FLUID PROP	EKIIES	method	ilmivbase		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.2	13.1

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10729607

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0098388 : 06001247

Test Package : FLEET

Received : 08 Nov 2023 Diagnosed Diagnostician : Wes Davis

: 08 Nov 2023

GFL Environmental - 822 - Springfield Hauling 2120 West Bennett Street

Springfield, MO US 65807

Contact: Dennis Moore dennis.moore@gflenv.com T: (417)403-3641

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)