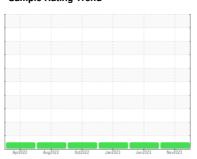


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 911021

Component **Diesel Engine**

PETRO CANADA DURON HP 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

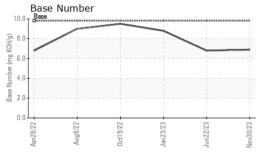
Fluid Condition

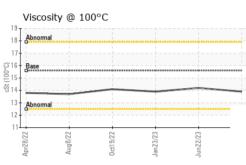
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

•		Apr2022	Aug2022 Oct2022	Jan2023 Jun2023	Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100052	GFL0062190	GFL0062217
Sample Date		Client Info		30 Nov 2023	22 Jun 2023	23 Jan 2023
Machine Age	hrs	Client Info		6756	5769	4767
Oil Age	hrs	Client Info		479	586	657
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	15	23	17
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	1	1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
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		6	6	2
Barium	ppm	ASTM D5185m		3	0	0
Molybdenum	ppm	ASTM D5185m		61	64	63
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		839	968	874
Calcium	ppm	ASTM D5185m		1075	1198	1102
Phosphorus	ppm	ASTM D5185m		929	1036	969
Zinc	ppm	ASTM D5185m		1146	1330	1194
Sulfur	ppm	ASTM D5185m		2881	3418	2819
CONTAMINAN	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	3
Sodium	ppm	ASTM D5185m		2	4	4
Potassium	ppm	ASTM D5185m	>20	5	2	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	1.3	1.1
Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.8	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	23.1	19.7
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	18.7	14.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.9	6.8	8.8
()	0 - 0					



OIL ANALYSIS REPORT

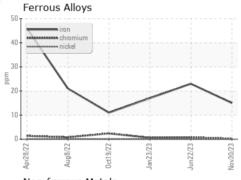


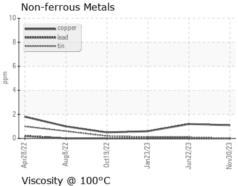


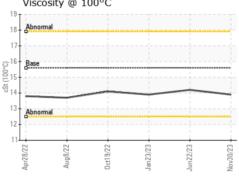
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

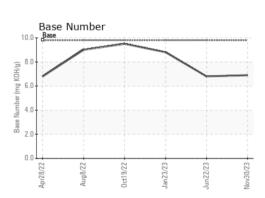
FLUID PROPI	EULIES	method			riistory i	HIStoryZ
Visc @ 100°C	cSt	ASTM D445	15.6	13.9	14.2	13.9

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10778887

: GFL0100052 : 06029096

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Dec 2023

Diagnosed : 09 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 626 - Cadillac Hauling

1501 Ron Wilson St Cadillac, MI US 49601

Contact: GARY BREWER

gbrewerjr@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)

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