

OIL ANALYSIS REPORT

(YA154653) Machine Id 2866

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (12 GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

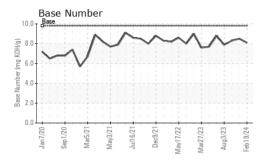
Fluid Condition

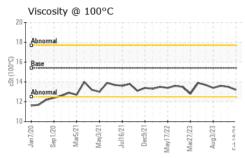
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	ATION	method	limit/base	21 Dec2021 May2022 May2023 Au	history1	history2
Sample Number		Client Info		GFL0088513	GFL0098117	GFL0088515
Sample Date		Client Info		19 Feb 2024	10 Nov 2023	03 Oct 2023
	nrs	Client Info		691	691	691
, and the second	nrs	Client Info		494	585	319
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status		Oliciit iiilo		NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	mathad	limit/bass			
	אוע	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	opm	ASTM D5185m	>165	8	8	16
Chromium	opm	ASTM D5185m	>5	<1	<1	1
Nickel	opm	ASTM D5185m	>4	0	<1	0
Titanium	opm	ASTM D5185m	>2	0	<1	<1
Silver	opm	ASTM D5185m	>2	0	<1	<1
Aluminum	opm	ASTM D5185m	>20	3	2	14
	opm	ASTM D5185m	>150	<1	<1	2
·	opm	ASTM D5185m	>90	<1	1	2
	opm	ASTM D5185m	>5	<1	<1	<1
	opm	ASTM D5185m		0	0	0
	opm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	opm	ASTM D5185m	0	2	4	5
Barium	opm	ASTM D5185m	0	0	<1	0
Molybdenum	opm	ASTM D5185m	60	60	62	66
	opm	ASTM D5185m	0	<1	<1	<1
Magnesium	opm	ASTM D5185m	1010	951	934	1192
	opm	ASTM D5185m	1070	1043	1141	1435
	opm	ASTM D5185m	1150	1075	1015	1201
	opm	ASTM D5185m	1270	1264	1243	1590
	opm	ASTM D5185m	2060	2968	3066	3981
CONTAMINANT	S	method	limit/base	current	history1	history2
	opm	ASTM D5185m	>35	4	4	6
	opm	ASTM D5185m		4	0	5
	opm	ASTM D5185m	>20	7	11	35
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.3	0.2	0.3
	Abs/cm	*ASTM D7624	>20	7.9	6.9	7.8
	Abs/.1mm	*ASTM D7624		7.9 19.6	18.9	
			>30			19.1
FLUID DEGRADA		method	limit/base	current	history1	history2
	Abs/.1mm	*ASTM D7414	>25	15.7	14.8	15.2
Base Number (BN)	ng KOH/g	ASTM D2896	9.8	8.1	8.5	8.3



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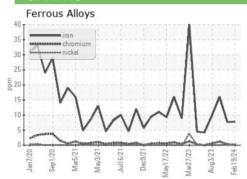


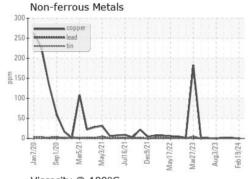


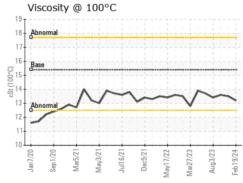
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

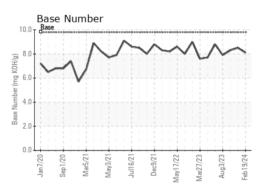
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.5	13.6

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06094879 Unique Number : 10887732

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0088513

Test Package : FLEET

Received : 20 Feb 2024 **Tested** Diagnosed

: 21 Feb 2024 : 21 Feb 2024 - Wes Davis

GFL Environmental - 017 - Durham

148 Stone Park Court Durham, NC US 27703

Contact: William Russel william.russell@gflenv.com

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: (919)598-1852

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