

OIL ANALYSIS REPORT

(EKA759) 910024

Component **Diesel Engine**

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

Sample Rating Trend

NORMAL

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

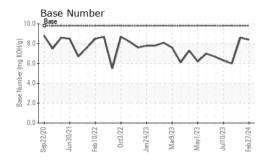
Fluid Condition

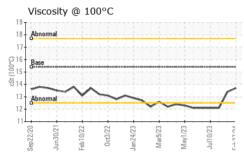
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		1p2020 Jun20	121 Feb 2022 Oct2022	Jan2023 Mar2023 May2023 Jul	2023 Feb 207	
SAMPLE INFORM	NOITA	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106111	GFL0106103	GFL0082066
Sample Date		Client Info		27 Feb 2024	27 Dec 2023	22 Aug 2023
Machine Age	hrs	Client Info		10735	10635	10048
Oil Age	hrs	Client Info		530	600	559
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	ON	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	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	39	9	28
Chromium	ppm	ASTM D5185m	>20	2	<1	2
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	2	10
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	0	0	<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	0	10	14	8
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	60	55	54	62
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	874	879	751
Calcium	ppm	ASTM D5185m	1070	1023	1036	1128
Phosphorus	ppm	ASTM D5185m	1150	979	1055	888
Zinc	ppm	ASTM D5185m	1270	1153	1243	1143
Sulfur	ppm	ASTM D5185m	2060	2731	3283	3238
CONTAMINANT	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	2	4
Sodium	ppm	ASTM D5185m		1	0	1
Potassium	ppm	ASTM D5185m	>20	7	3	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.7	0.4	1
Nitration	Abs/cm	*ASTM D7624	>20	6.8	5.9	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	17.8	21.0
FLUID DEGRAD	<u>ATION</u>	method				history2
FLUID DEGRAD Oxidation Base Number (BN)	ATION Abs/.1mm mg KOH/g	method *ASTM D7414 ASTM D2896	limit/base >25 9.8	13.5 8.4	history1 13.3 8.6	13.9 6.0



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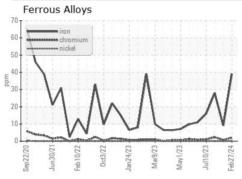


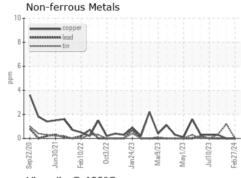


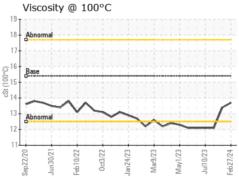
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

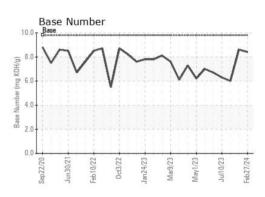
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.4	12.1

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06109114 Unique Number : 10912611

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0106111

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

Tested Test Package : FLEET

Received : 05 Mar 2024 : 06 Mar 2024 Diagnosed : 06 Mar 2024 - Wes Davis

GFL Environmental - 152 - Jacksonville 7580 PHILIPS HWY

Jacksonville, FL US 32256

Contact: GRANVILLE CARROLL

gcarroll@gflenv.com T: 1(904)252-6815

* - 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)

Report Id: GFL152 [WUSCAR] 06109114 (Generated: 03/06/2024 14:31:29) Rev: 1

Submitted By: Eric Thomas