

OIL ANALYSIS REPORT

(YA115842) GFL035 3510

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (11 GAL)

Sample Rating Trend



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

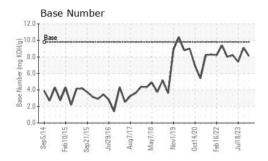
Fluid Condition

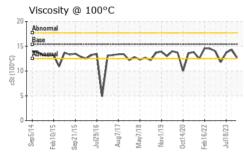
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

OAMBI E WEGEN	ATION		Sep2015 Jul2016 Aug201				
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0103794	GFL0071566	GFL0071577	
Sample Date		Client Info		23 Feb 2024	15 Aug 2023	18 Jul 2023	
Machine Age	hrs	Client Info		70989	70189	70189	
Oil Age	hrs	Client Info		800	600	600	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATIO	NC	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	ppm	ASTM D5185m	>75	23	15	52	
Chromium	ppm	ASTM D5185m	>5	2	<1	2	
Nickel	ppm	ASTM D5185m	>4	<1	0	<1	
	ppm	ASTM D5185m	>2	<1	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>15	4	4	4	
Lead	ppm	ASTM D5185m	>25	0	0	2	
	ppm	ASTM D5185m	>100	<1	<1	1	
	ppm	ASTM D5185m	>4	<1	0	<1	
	ppm	ASTM D5185m		0	<1	0	
	ppm	ASTM D5185m		<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	5	6	4	
	ppm	ASTM D5185m	0	0	0	<1	
Molybdenum	ppm	ASTM D5185m	60	60	60	70	
•	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	908	942	1050	
-	ppm	ASTM D5185m	1070	1065	1149	1249	
	ppm	ASTM D5185m	1150	1022	1031	1163	
	ppm	ASTM D5185m	1270	1221	1260	1417	
	ppm	ASTM D5185m	2060	3100	3766	3882	
CONTAMINANT	S	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	11	8	
	ppm	ASTM D5185m		8	3	10	
	ppm	ASTM D5185m	>20	2	<1	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.8	0.2	1.4	
	Abs/cm	*ASTM D7624	>20	8.9	5.3	12.6	
	Abs/.1mm	*ASTM D7415	>30	20.6	17.8	25.0	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	13.4	21.5	
	mg KOH/g	ASTM D2896		8.1	9.1	7.4	
= 300ambor (bit)	9		5.0	V. I	0.1		



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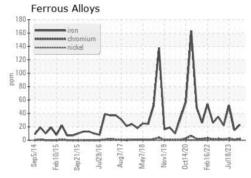


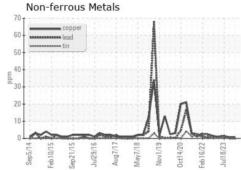


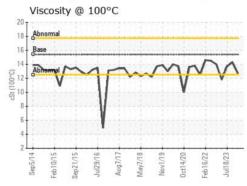
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

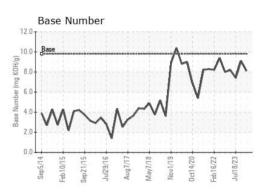
FLUID PROPE	ERITES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.7	14.3	13.7

GRAPHS













Laboratory Sample No.

Lab Number : 06102767 Unique Number : 10900997

: GFL0103794

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Feb 2024 **Tested** : 29 Feb 2024

Diagnosed : 29 Feb 2024 - Wes Davis

GFL Environmental - 020 - Alamance

703 East Gilbreath St Graham, NC US 27253

Contact:

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Test Package : FLEET Certificate L2367 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)