

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL





427083-402340

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

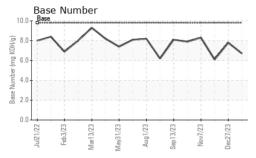
Fluid Condition

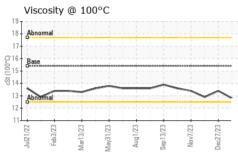
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111096	GFL0103500	GFL0094795
Sample Date		Client Info		05 Feb 2024	27 Dec 2023	24 Nov 2023
Machine Age	hrs	Client Info		18360	18114	17952
Oil Age	hrs	Client Info		408	162	1108
Oil Changed		Client Info		N/A	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	12	3	21
Chromium	ppm	ASTM D5185m	>20	- <u>-</u> <1	0	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm		>20	5	3	7
Lead		ASTM D5185m	>40	0	0	0
	ppm		>330	1	<1	2
Copper Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m	>10	<1	0	0
	ppm			0		
Cadmium	ppm	ASTM D5185m			0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	13	20	10
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	90	81	105
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	922	885	953
Calcium	ppm	ASTM D5185m	1070	1044	968	1142
Phosphorus	ppm	ASTM D5185m	1150	967	1006	972
Zinc	ppm	ASTM D5185m	1270	1176	1196	1250
Sulfur	ppm	ASTM D5185m	2060	2771	2982	3033
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	5	17
Sodium	ppm	ASTM D5185m		4	3	5
Potassium	ppm	ASTM D5185m	>20	7	8	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.9	6.3	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	18.3	20.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	14.3	17.2
Base Number (BN)	mg KOH/g	ASTM D2896		6.7	7.8	6.1
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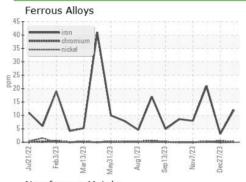


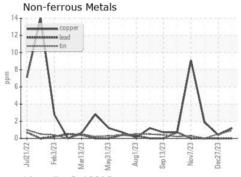


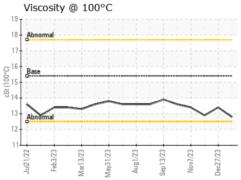
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

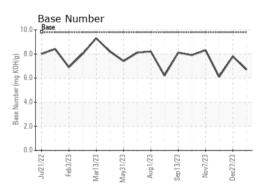
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.8	13.4	12.9

GRAPHS













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

Lab Number : 06084488 Unique Number: 10871933

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0111096

Received **Tested** Diagnosed : 09 Feb 2024 - Wes Davis

: 09 Feb 2024 : 09 Feb 2024

GFL environmental - 867 - Trafford (Blount Hauling) 1130 County Line Rd Trafford, AL US 35172

Contact: Jonathan Williams jonathan.williams@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)

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