

OIL ANALYSIS REPORT

Sample Rating Trend

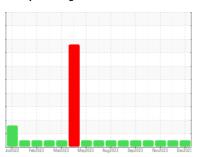
NORMAL



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

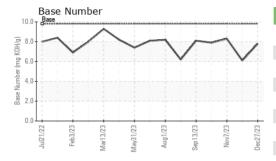
Fluid Condition

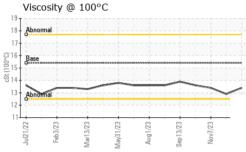
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATIO <u>N</u>	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103500	GFL0094795	GFL0094787
Sample Date		Client Info		27 Dec 2023	24 Nov 2023	07 Nov 2023
Machine Age	hrs	Client Info		18114	17952	17833
Oil Age	hrs	Client Info		162	1108	989
Oil Changed		Client Info		Not Changd	Changed	N/A
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		NEG	NEG	NEG
Glycol		WC Method	70.L	NEG	NEG	NEG
	_					
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	3	21	8
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	7	3
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	2	9
Tin	ppm	ASTM D5185m	>15	<1	0	<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	20	10	21
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	81	105	104
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	885	953	908
Calcium	ppm	ASTM D5185m	1070	968	1142	1132
Phosphorus	ppm	ASTM D5185m	1150	1006	972	1012
Zinc	ppm	ASTM D5185m	1270	1196	1250	1234
Sulfur	ppm	ASTM D5185m	2060	2982	3033	2793
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	17	3
Sodium	ppm	ASTM D5185m		3	5	<1
Potassium	ppm	ASTM D5185m	>20	8	12	14
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.3	8.7	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	20.9	19.5
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	17.2	14.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	6.1	8.3



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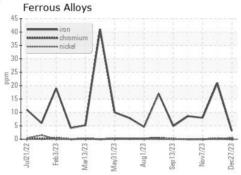


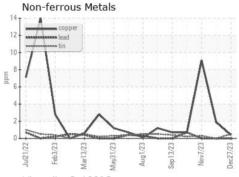


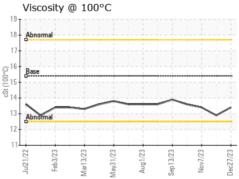
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

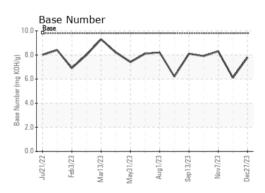
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	12.9	13.4

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: GFL0103500 : 06049706 : 10810314 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 03 Jan 2024 : 04 Jan 2024 Diagnosed

Diagnostician : Wes Davis

GFL environmental - 867 - Trafford (Blount Hauling) 1130 County Line Rd

Trafford, AL US 35172

Contact: Jonathan Williams jonathan.williams@gflenv.com

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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.

Report Id: GFL867 [WUSCAR] 06049706 (Generated: 01/04/2024 11:25:07) Rev: 1

Submitted By: see also GFL868 - Chelsea Bryan

T:

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