

OIL ANALYSIS REPORT

(BB45472) 725011-507

Component Diesel Engine

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

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Sample)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

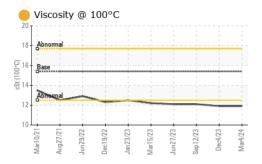
Fluid Condition

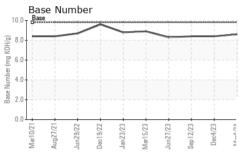
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

JAL)		Mar2021 Aug2	021 Jun2022 Dec2022 Jan2	023 Mar2023 Jun2023 Sep2023 Dec2	023 Mar2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115448	GFL0100033	GFL0062211
Sample Date		Client Info		04 Mar 2024	04 Dec 2023	12 Sep 2023
Machine Age	hrs	Client Info		39696	39696	39571
Oil Age	hrs	Client Info		38898	654	673
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<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	>100	35	25	94
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	2	4
Lead	ppm	ASTM D5185m	>40	0	0	6
Copper	ppm	ASTM D5185m	>330	<1	<1	3
Tin	ppm	ASTM D5185m	>15	0	0	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	13	14	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	68	71	67
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	859	890	913
Calcium	ppm	ASTM D5185m	1070	1113	1099	1166
Phosphorus	ppm	ASTM D5185m	1150	924	961	996
Zinc	ppm	ASTM D5185m	1270	1098	1192	1254
Sulfur	ppm	ASTM D5185m	2060	2855	2918	2725
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	4	7
Sodium	ppm	ASTM D5185m		13	12	90
Potassium	ppm	ASTM D5185m	>20	0	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.9
Nitration	Abs/cm	*ASTM D7624	>20	5.4	5.4	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	17.3	20.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.5	12.6	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	8.4	8.4



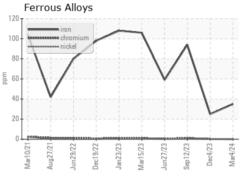
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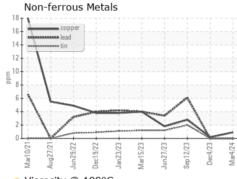


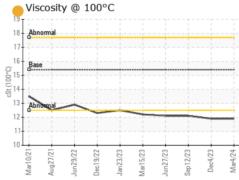


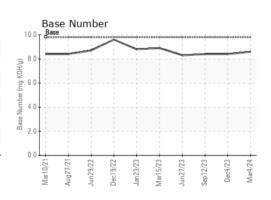
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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						
Visc @ 100°C	cSt	ASTM D445	15.4	11.9	11.9	12.1	











Certificate L2367

Report Id: GFL626 [WUSCAR] 06111260 (Generated: 03/09/2024 13:15:18) Rev: 1

Laboratory Sample No.

Lab Number : 06111260 Unique Number: 10914757

Test Package : FLEET

: GFL0115448

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed

: 07 Mar 2024 : 08 Mar 2024 : 09 Mar 2024 - Don Baldridge

GFL Environmental - 626 - Cadillac Hauling 1501 Ron Wilson St Cadillac, MI

US 49601 Contact: GARY BREWER gbrewerjr@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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