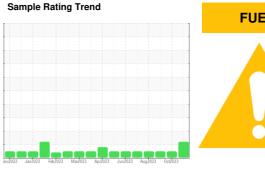


OIL ANALYSIS REPORT

(62A0X10) ALEXANDER CITY 711006

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

Light fuel dilution occurring.

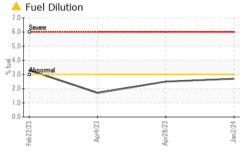
Fluid Condition

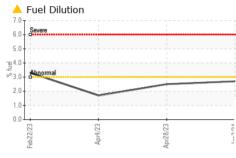
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

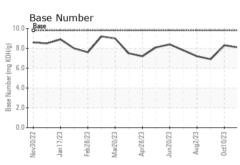
ial)		lov2022 Jan2	023 Feb2023 Mar2023	Apr2023 Jun2023 Aug2023	Oct2023	
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0080723	GFL0079747	GFL0081915
Sample Date		Client Info		02 Jan 2024	10 Oct 2023	18 Aug 2023
Machine Age	nrs	Client Info		5853	5570	5426
Oil Age	nrs	Client Info		1411	1128	984
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron p	opm	ASTM D5185m	>90	25	8	30
Chromium	opm	ASTM D5185m	>20	<1	<1	<1
Nickel	opm	ASTM D5185m	>2	0	<1	0
	opm	ASTM D5185m	>2	0	<1	0
Silver p	opm	ASTM D5185m	>2	0	0	0
	opm	ASTM D5185m	>20	4	2	9
Lead r	opm	ASTM D5185m	>40	<1	0	0
	opm	ASTM D5185m	>330	<1	<1	2
	opm	ASTM D5185m	>15	<1	0	<1
	opm	ASTM D5185m		0	<1	0
	opm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	opm	ASTM D5185m	0	13	18	15
Barium	opm	ASTM D5185m	0	0	0	0
Molybdenum p	opm	ASTM D5185m	60	60	60	71
Manganese	opm	ASTM D5185m	0	<1	<1	<1
Magnesium p	opm	ASTM D5185m	1010	888	812	910
Calcium	opm	ASTM D5185m	1070	1041	1013	1233
Phosphorus p	opm	ASTM D5185m	1150	1016	912	1047
Zinc	opm	ASTM D5185m	1270	1198	1074	1231
Sulfur	opm	ASTM D5185m	2060	3107	2751	3656
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	opm	ASTM D5185m	>25	7	4	11
Sodium	opm	ASTM D5185m		24	11	3
Potassium	opm	ASTM D5185m	>20	10	2	7
Fuel	%	ASTM D3524	>3.0	<u> </u>	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0.2	0.7
Nitration /	Abs/cm	*ASTM D7624	>20	8.3	5.5	10.5
	Abs/.1mm	*ASTM D7415	>30	17.8	16.7	19.6
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation /	Abs/.1mm	*ASTM D7414	>25	13.6	12.0	14.9
	ng KOH/g	ASTM D2896		8.1	8.3	6.9
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OIL ANALYSIS REPORT



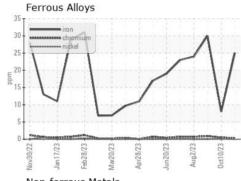


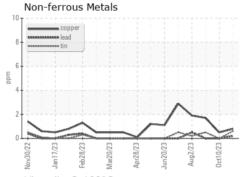


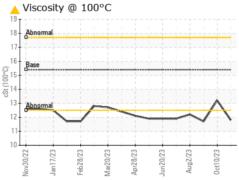
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

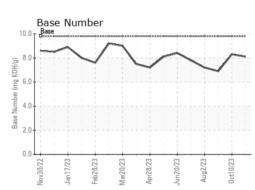
FLUID PROPI	ERHES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	<u> </u>	13.2	11.7

GRAPHS













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0080723 Lab Number : 06078976

Unique Number: 10861067

Received **Tested** Diagnosed

: 02 Feb 2024 : 06 Feb 2024

: 06 Feb 2024 - Wes Davis Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

GFL Environmental - 172 - Montgomery-Alexander City-Tallahassee Multiple Sites Montgomery, AL US 36108 Contact: Lisa Reeves

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

lisa.reeves@gflenv.com T: (334)946-9566

* - 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)