

OIL ANALYSIS REPORT

(MC11536) GFL902 926024

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- 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

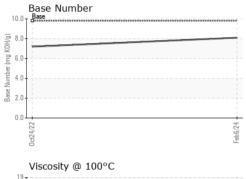
Fluid Condition

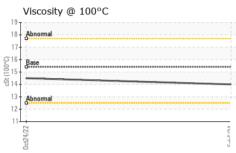
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

,			0ct2022	Feb 2024		
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108492	GFL0059609	
Sample Date		Client Info		06 Feb 2024	24 Oct 2022	
·	nls	Client Info		0	35117	
	nls	Client Info		0	600	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATIC	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method		NEG	NEG	
Glycol		WC Method	7 O.L	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
						,
	opm	ASTM D5185m	>90	2	32	
	opm	ASTM D5185m		0	1	
	opm	ASTM D5185m	>4	0	0	
Titanium p	opm	ASTM D5185m	>2	0	0	
Silver	opm	ASTM D5185m	>2	0	0	
Aluminum p	opm	ASTM D5185m	>15	<1	7	
Lead p	opm	ASTM D5185m	>50	0	1	
Copper	opm	ASTM D5185m	>55	0	1	
Tin p	opm	ASTM D5185m	>4	0	<1	
Vanadium p	opm	ASTM D5185m		0	0	
Cadmium p	opm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron p	opm	ASTM D5185m	0	3	27	
Barium p	opm	ASTM D5185m	0	0	<1	
Molybdenum p	opm	ASTM D5185m	60	54	44	
Manganese p	opm	ASTM D5185m	0	0	<1	
Magnesium p	pm	ASTM D5185m	1010	984	575	
Calcium	pm	ASTM D5185m	1070	1087	1626	
	pm	ASTM D5185m	1150	1057	797	
	opm	ASTM D5185m	1270	1227	984	
	opm	ASTM D5185m	2060	3211	2755	
CONTAMINANTS	S	method	limit/base	current	history1	history2
	opm	ASTM D5185m	>15	2	8	
	opm	ASTM D5185m		<1	3	
	opm	ASTM D5185m	>20	<1	14	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.1	0.6	
	Abs/cm	*ASTM D7624	>20	5.9	13.5	
	Abs/.1mm	*ASTM D7415	>30	17.8	26.7	
FLUID DEGRADA	MOITA	method	limit/base	current	history1	history2
Oxidation A	Abs/.1mm	*ASTM D7414	>25	14.2	28.8	
	ng KOH/g	ASTM D2896	9.8	8.1	7.2	
Dage Number (DIN)	ng Norly	ASTINI DE030	0.0	0.1	1.6	



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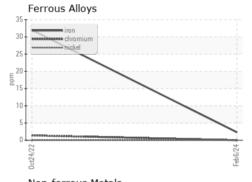


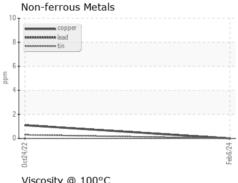


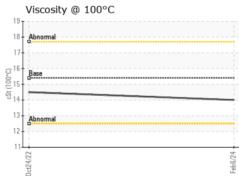
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

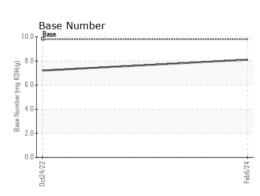
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.5	

GRAPHS













Laboratory Sample No.

: GFL0108492 Lab Number : 06085650 Unique Number : 10873095

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Feb 2024

Tested : 12 Feb 2024 Diagnosed : 12 Feb 2024 - Wes Davis

GFL Environmental - 904 - Chippewa Falls HC

11888 & 11863 30th Avenue Chippewa Falls, WI US 54729

Contact: Andy Kane

T: (715)202-3420

Test Package : FLEET 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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