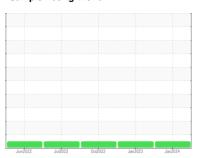


OIL ANALYSIS REPORT

Sample Rating Trend









922012 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

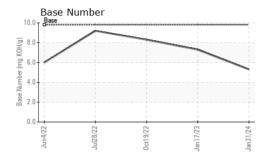
Fluid Condition

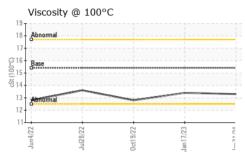
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (GAL)	Jun 2022	Jul2022	Dct2022 Jan2023	Jan 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107482	GFL0064264	GFL005682
Sample Date		Client Info		31 Jan 2024	17 Jan 2023	19 Oct 2022
Machine Age	hrs	Client Info		26885	26338	25859
Oil Age	hrs	Client Info		547	610	620
Oil Changed		Client Info		Changed	Changed	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	32	11	8
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	2	4
Lead	ppm	ASTM D5185m	>40	5	3	<1
Copper	ppm	ASTM D5185m	>330	3	1	1
Tin	ppm	ASTM D5185m	>15	2	<1	<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	6	2	3
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	60	63	60	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	932	911	928
Calcium	ppm	ASTM D5185m	1070	983	1059	1064
Phosphorus	ppm	ASTM D5185m	1150	977	981	973
Zinc	ppm	ASTM D5185m	1270	1231	1194	1170
Sulfur	ppm	ASTM D5185m	2060	2849	2840	3365
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	6	4
Sodium	ppm	ASTM D5185m		10	5	4
Potassium	ppm	ASTM D5185m	>20	2	4	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.4	0.4
3001 /6		+4.0T14.D=00.4	- 20	4= 6	11.1	10.3
Nitration	Abs/cm	*ASTM D7624	>20	15.0	11.1	10.5
	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>30	15.0 26.4	21.7	21.4
Nitration	Abs/.1mm	*ASTM D7415				21.4
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	26.4	21.7	



OIL ANALYSIS REPORT

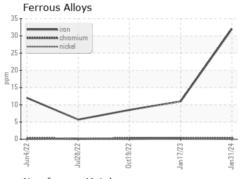


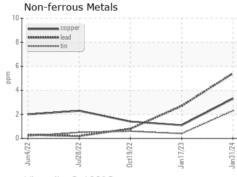


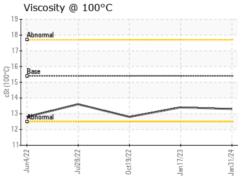
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

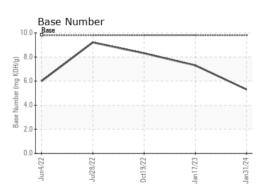
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.4	12.8	

GRAPHS













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0107482 Lab Number : 06082957 Unique Number : 10870402

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Feb 2024 **Tested** : 08 Feb 2024

: 09 Feb 2024 - Don Baldridge Diagnosed

GFL Environmental - 912 - Fort Atkinson HC

1215 Klement St. Fort Atkinson, WI US 53538

Contact: LEONARD KOZLEUCHAR

To discuss this sample report, contact Customer Service at 1-800-237-1369. leonard.kozleuchar@gflenv.com T: (262)210-6528

* - 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) F: