

OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id 4544M 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

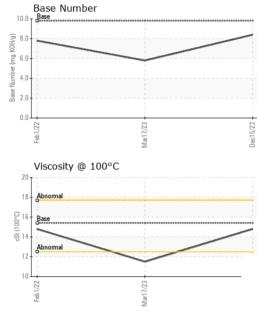
Fluid Condition

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

ON SHP 15W40 (GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0105691	GFL0068706	GFL0042321
Sample Date		Client Info		15 Dec 2023	17 Mar 2023	01 Feb 2022
Machine Age	hrs	Client Info		7718	6069	2938
Oil Age	hrs	Client Info		6069	2938	2596
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<u>^</u> 2.9	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>90	39	37	102
Chromium	ppm	ASTM D5185m	>20	2	2	4
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	4	6	14
_ead	ppm	ASTM D5185m	>40	2	2	8
Copper	ppm	ASTM D5185m	>330	2	1	13
Tin .	ppm	ASTM D5185m	>15	<1	<1	2
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	39	56
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	919	575	886
Calcium	ppm	ASTM D5185m	1070	1045	723	1081
Phosphorus	ppm	ASTM D5185m	1150	1048	728	933
Zinc	ppm	ASTM D5185m	1270	1256	946	1129
Sulfur	ppm	ASTM D5185m	2060	2924	2304	2046
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	4	7
Sodium	ppm	ASTM D5185m		6	4	7
Potassium	ppm	ASTM D5185m	>20	3	5	34
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	2	1.8	3.1
	Abs/cm	*ASTM D7624	>20	12.1	9.9	17.7
Vitration						
	Abs/.1mm	*ASTM D7415	>30	24.1	24.1	31.8
	Abs/.1mm		>30 limit/base	24.1 current	24.1 history1	
Nitration Sulfation FLUID DEGRAD Oxidation	Abs/.1mm					31.8 history2 29.2



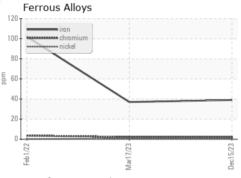
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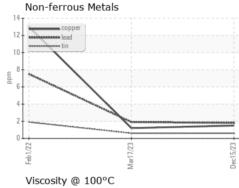


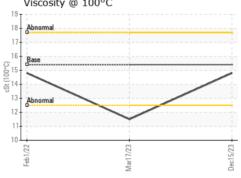
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

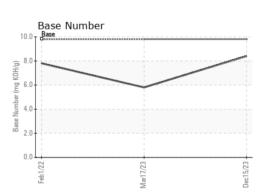
I LOID I ITOI	LITTIES					
Visc @ 100°C	cSt	ASTM D445	15.4	14.8	▲ 11.5	14.8

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10794333 Test Package : FLEET

: GFL0105691 : 06039104

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Recieved : 19 Dec 2023 Diagnosed Diagnostician : Wes Davis

: 20 Dec 2023

GFL Environmental - 415 - Michigan East

6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

* - 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)