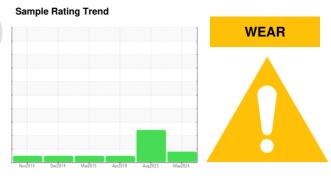






Component

Diesel Engine PETRO CANADA DURON SHP 15W40 (7 GAL)



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The aluminum level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

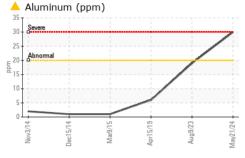
Fluid Condition

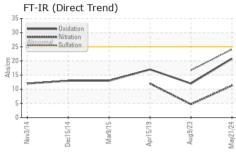
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

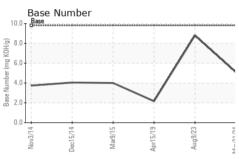
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0077443	GFL0071334	GFLI-485770
Sample Date		Client Info		21 May 2024	09 Aug 2023	15 Apr 2019
	mls	Client Info		216201	0	216201
Oil Age	mls	Client Info		0	0	113550
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATIO	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	0.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron p	ppm	ASTM D5185m	>130	49	41	61
Chromium	ppm	ASTM D5185m	>10	4	11	1
Nickel	ppm	ASTM D5185m	>4	<1	<1	1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	△ 30	1 9	6
Lead	ppm	ASTM D5185m	>20	<1	<1	0
Copper	ppm	ASTM D5185m	>125	8	3	1
Tin p	ppm	ASTM D5185m	>4	1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium p	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron p	ppm	ASTM D5185m	0	3	4	101
Barium p	ppm	ASTM D5185m	0	0	0	0
Molybdenum p	ppm	ASTM D5185m	60	63	58	102
Manganese p	ppm	ASTM D5185m	0	1	<1	0
Magnesium p	ppm	ASTM D5185m	1010	902	855	609
Calcium	ppm	ASTM D5185m	1070	1067	1007	1565
Phosphorus p	ppm	ASTM D5185m	1150	1006	974	735
Zinc	ppm	ASTM D5185m	1270	1218	1119	927
Sulfur	ppm	ASTM D5185m	2060	2721	2924	
Lithium	ppm	ASTM D5185m				0
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	<u></u> 51	8
Sodium	ppm	ASTM D5185m		7	2	4
Potassium	ppm	ASTM D5185m	>20	21	2	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.9	0.2	0.8
	% Abs/cm	*ASTM D7844 *ASTM D7624		0.9 11.3	0.2 4.7	0.8
Nitration /			>20			

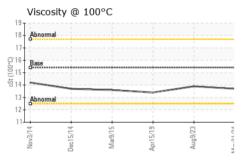


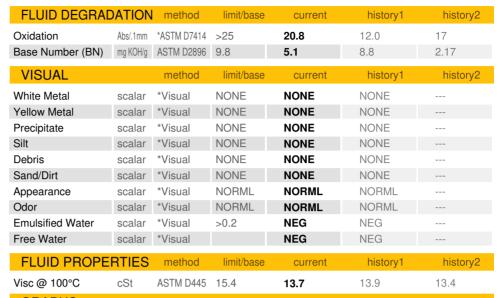
OIL ANALYSIS REPORT



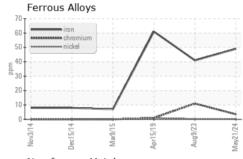


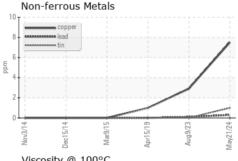


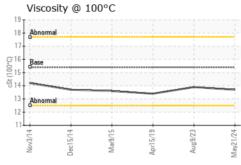


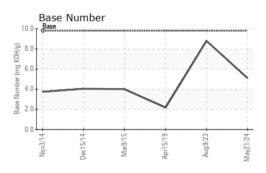


GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0077443 Lab Number : 06193753 Unique Number : 11050505 Test Package : FLEET

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

: 29 May 2024 : 30 May 2024 Diagnosed : 30 May 2024 - Sean Felton

GFL Environmental - 072 - Americus - Transwaste 361 McMath Mill Road Americus, GA US 31719

Contact: RICHARD HEINZERLING richard.heinzerling@gflenv.com T: (229)924-3669

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)



Submitted By: George Sawyer