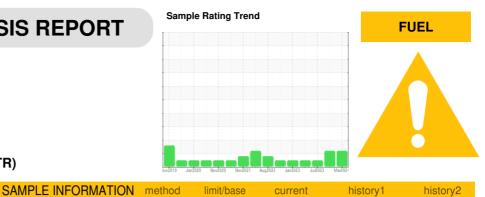


OIL ANALYSIS REPORT



Machine Id 801189

Component Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (20 LTR)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

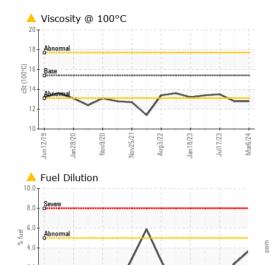
Fluid Condition

The condition of the oil is acceptable for the time in service.

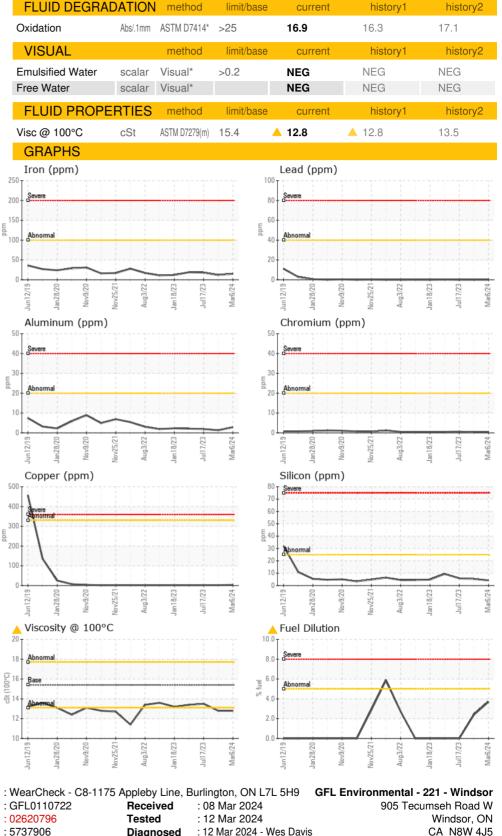
SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110722	GFL0085672	GFL0077305
Sample Date		Client Info		06 Mar 2024	11 Oct 2023	17 Jul 2023
Machine Age	hrs	Client Info		8322	8322	8322
Oil Age	hrs	Client Info		8322	8322	8322
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
		and the set	11.00.11.00.00.00		In the test second	history O
CONTAMINAT	UN	method	limit/base	current	history1	history2
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 D5185(m)	>100	15	12	18
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	1	2
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	3	2	2
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	55	57	57
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	889	923	941
Calcium	ppm	ASTM D5185(m)	1070	982	1024	1023
Phosphorus	ppm	ASTM D5185(m)	1150	933	938	1013
Zinc	ppm	ASTM D5185(m)	1270	1101	1171	1170
Sulfur	ppm	ASTM D5185(m)	2060	2391	2361	2402
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	5	6
Sodium	ppm	ASTM D5185(m)		1	1	1
Potassium	ppm	ASTM D5185(m)	>20	4	<1	1
Fuel	%	ASTM D7593*	>5	A 3.7	2 .4	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.3	0.2	0.3
Nitration	Abs/cm	ASTM D7624*		9.2	8.8	9.5
Sulfation	Abs/.1mm		>30	19.7	19.7	20.3



OIL ANALYSIS REPORT



50/81 mm



Sample No. Lab Number : 02620796 ISO 17025:2017 Accredited Unique Number : 5737906 Laboratory Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

CALA

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

c) ts

Laboratory