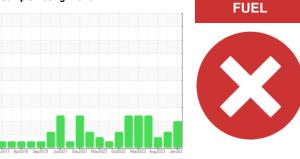


OIL ANALYSIS REPORT

Sample Rating Trend



Component Diesel Engine

Area GFL207

PETRO CANADA DURON SHP 15W40 (20 LTR)

	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
S	ample Number		Client Info		GFL0102729	GFL0094541	GFL0088994
S	ample Date		Client Info		31 Jan 2024	17 Nov 2023	28 Aug 2023
N	lachine Age	hrs	Client Info		13291	16706	16132
C	oil Age	hrs	Client Info		0	0	0
C	il Changed		Client Info		Changed	Changed	Changed
	ample Status				SEVERE	ABNORMAL	ABNORMAL
	CONTAMINAT	ION	method	limit/base	current	history1	history2
W	later		WC Method	>0.2	NEG	NEG	NEG
G	ilycol		WC Method		NEG	NEG	NEG
	WEAR METAL	S	method	limit/base	current	history1	history2
	on	ppm	ASTM D5185(m)	>75	25	28	29
С	hromium	ppm	ASTM D5185(m)	>5	<1	<1	1
Ν	lickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Т	itanium	ppm	ASTM D5185(m)	>2	0	0	0
S	ilver	ppm	ASTM D5185(m)	>2	0	<1	0
A	luminum	ppm	ASTM D5185(m)	>15	2	3	3
L	ead	ppm	ASTM D5185(m)	>25	<1	<1	0
С	opper	ppm	ASTM D5185(m)	>100	<1	1	<1
	in	ppm	ASTM D5185(m)	>4	0	0	0
A	ntimony	ppm	ASTM D5185(m)		0	0	0
	anadium	ppm	ASTM D5185(m)		0	0	0
В	eryllium	ppm	ASTM D5185(m)		0	0	0
	admium	ppm	ASTM D5185(m)		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
В	oron	ppm	ASTM D5185(m)	0	1	2	4
В	arium	ppm	ASTM D5185(m)	0	0	0	0
N	lolybdenum	ppm	ASTM D5185(m)	60	51	51	54
	langanese	ppm	ASTM D5185(m)	0	0	0	<1
	lagnesium	ppm	ASTM D5185(m)	1010	842	842	863
С	alcium	ppm	ASTM D5185(m)	1070	958	939	923
Р	hosphorus	ppm	ASTM D5185(m)	1150	876	861	908
Z	inc	ppm	ASTM D5185(m)	1270	1047	1058	1052
S	ulfur	ppm	ASTM D5185(m)	2060	2286	2171	2243
Li	ithium	ppm	ASTM D5185(m)		<1	<1	<1
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
S	ilicon	ppm	ASTM D5185(m)	>25	5	6	6
S	odium	ppm	ASTM D5185(m)		7	9	9
Р	otassium	ppm	ASTM D5185(m)	>20	2	3	3
F	uel	%	ASTM D7593*	>3.0	7.6	6 .1	▲ 5.1
	INFRA-RED		method	limit/base	current	history1	history2
S	oot %	%	ASTM D7844*	>6	0.8	0.8	0.8
N	litration	Abs/cm	ASTM D7624*	>20	12.2	11.7	12.4
S	ulfation	Abs/.1mm	ASTM D7415*	>30	24.5	26.1	27.8

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

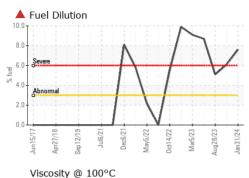
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

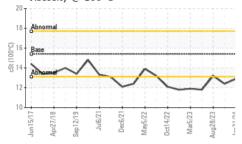
Fluid Condition

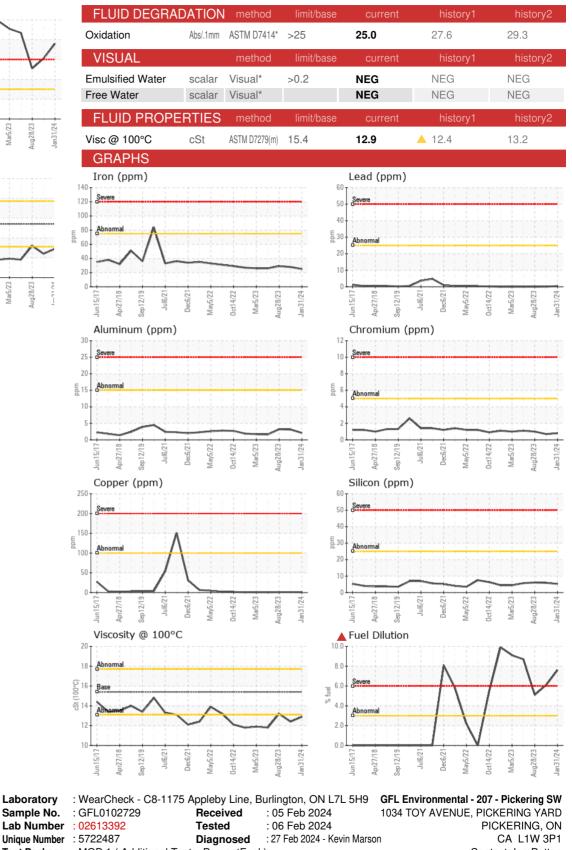
The oil is no longer serviceable due to the presence of contaminants.



OIL ANALYSIS REPORT







Laboratory Test Package : MOB 1 (Additional Tests: PercentFuel) 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.

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Laboratory

Sample No.