

GFL207 Machine Id 800029

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (20 GAL)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. 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.

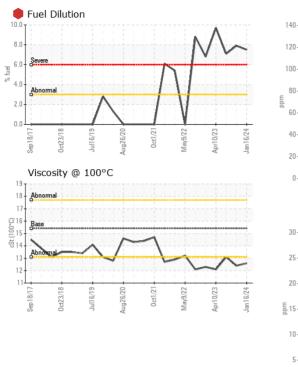
	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0110712	GFL0089025	GFL0082953
	Sample Date		Client Info		16 Jan 2024	22 Sep 2023	02 Jul 2023
	Machine Age	hrs	Client Info		15640	15133	14651
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				SEVERE	SEVERE	ABNORMAL
	Iron			. 75	00	01	20
	Iron	ppm	ASTM D5185(m)	>75	28	31	39 1
	Chromium	ppm	ASTM D5185(m)	>5	<1	<1	
	Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0
	Silver	ppm	ASTM D5185(m)	>2	0	<1	0
	Aluminum	ppm	ASTM D5185(m)	>15	3	3	3
	Lead	ppm	ASTM D5185(m)	>25	<1	<1	<1
	Copper	ppm	ASTM D5185(m)	>100	<1	<1	<1
	Tin	ppm	ASTM D5185(m)	>4	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	Silicon	ppm	ASTM D5185(m)	>25	7	8	13
	Potassium	ppm	ASTM D5185(m)	>20	4	6	4
	Fuel	%	ASTM D7593*	>3.0	0 7.5	7 .9	▲ 7.1
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	0.0	NEG
	Soot %	%	ASTM D7844*	>6	0.6	0.7	0.8
	Nitration	Abs/cm	ASTM D7624*	>20	13.8	13.1	14.2
	Sulfation	Abs/.1mm	ASTM D7415*	>30	26.6	27.6	28.6
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)		14	12	12
	Boron	ppm	ASTM D5185(m)	0	1	2	4
	Barium	ppm	ASTM D5185(m)	0	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	60	52	55	55
	Manganese	ppm	ASTM D5185(m)	0	0	0	<1
	Magnesium	ppm	ASTM D5185(m)	1010	825	860	868
	Calcium	ppm	ASTM D5185(m)	1070	945	946	927
	Phosphorus	ppm	ASTM D5185(m)	1150	849	857	950
	Zinc	ppm	ASTM D5185(m)	1270	1017	1056	1068
	Sulfur	ppm	ASTM D5185(m)	2060	2287	2173	2168
	Oxidation	Abs/.1mm	ASTM D7414*	>25	29.3	31.5	32.6
	Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.6	1 2.4	13.1

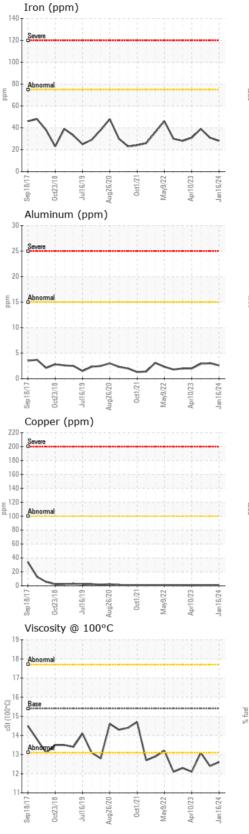
FLUID CONDITION

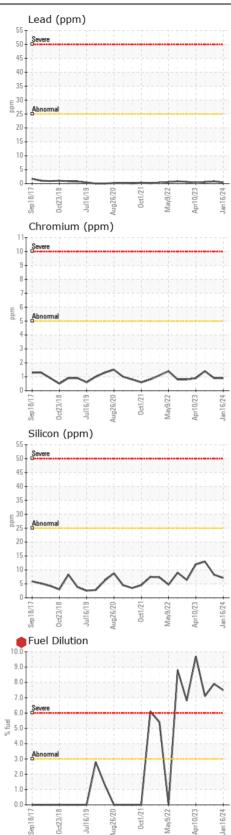
The oil is no longer serviceable due to the presence of contaminants.

Submitted By: Shane Cater

WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION NORMAL







: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 207 - Pickering SW Laboratory CALA Sample No. Recieved 1034 TOY AVENUE, PICKERING YARD : GFL0110712 : 18 Jan 2024 Lab Number PICKERING, ON : 02609628 Diagnosed : 19 Jan 2024 ISO 17025:2017 Accredited : 5710714 CA L1W 3P1 Unique Number Diagnostician : Kevin Marson Laboratory Test Package : MOB 1 (Additional Tests: PercentFuel) Contact: Ian Patton To discuss this sample report, contact Customer Service at 1-800-268-2131. ipatton@gflenv.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (905)831-6297 F: (905)426-3577 Validity of results and interpretation are based on the sample and information as supplied.

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