

WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION SEVERE



[1206289] Machine Id 201069

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.

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All component wear rates are normal.

CONTAMINATION

FLUID CONDITION

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

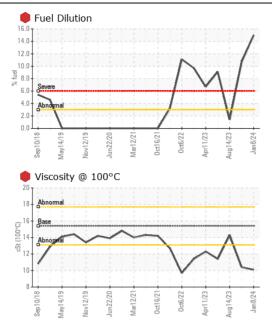
Fuel is present in the oil and is lowering the viscosity. The oil is no

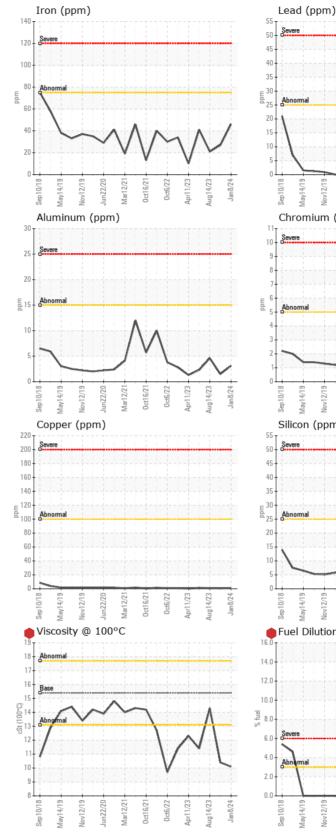
longer serviceable due to the presence of contaminants.

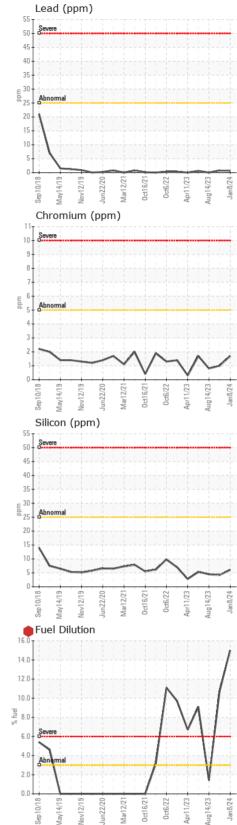
Test	UOM	Method	Limit/Abn	Current	History1	History2		
Sample Number		Client Info		GFL0102711	GFL0089026	GFL0084326		
Sample Date		Client Info		08 Jan 2024	03 Oct 2023	14 Aug 2023		
Machine Age	hrs	Client Info		16585	15976	6998		
Oil Age	hrs	Client Info		0	0	264		
Filter Age	hrs	Client Info		0	0	264		
Oil Changed		Client Info		N/A	Changed	Changed		
Filter Changed		Client Info		N/A	N/A	Changed		
Sample Status				SEVERE	SEVERE	MARGINAL		
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Iron	ppm	ASTM D5185(m)	>75	46	27	21		
Chromium	ppm	ASTM D5185(m)	>5	2	1	<1		
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1		
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	2	5		
Lead	ppm	ASTM D5185(m)	>25	<1	<1	0		
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	6	4	4		
Potassium	ppm	ASTM D5185(m)	>20	4	2	2		
Fuel	%	ASTM D7593*	>3.0	1 5	1 0.7	▲ 1.4		
Water		WC Method	>0.2	NEG	NEG	NEG		
Glycol		WC Method		NEG	NEG	NEG		
Soot %	%	ASTM D7844*	>6	0.4	0.3	0.6		
Nitration	Abs/cm	ASTM D7624*	>20	11.9	11.0	7.7		
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.0	25.5	21.0		
 Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG		
Sodium	ppm	ASTM D5185(m)		6	7	2		
Boron	ppm	ASTM D5185(m)	0	1	2	2		
Barium	ppm	ASTM D5185(m)	0	0	<1	0		
Molybdenum	ppm	ASTM D5185(m)	60	47	51	56		
Manganese	ppm	ASTM D5185(m)	0	0	0	<1		
Magnesium	ppm	ASTM D5185(m)	1010	760	815	944		
Calcium	ppm	ASTM D5185(m)	1070	860	886	1007		
Phosphorus	ppm	ASTM D5185(m)	1150	810	830	1021		
Zinc	ppm	ASTM D5185(m)	1270	964	1002	1151		
Sulfur	ppm	ASTM D5185(m)	2060	2039	2087	2457		
Oxidation	Abs/.1mm	ASTM D7414*	>25	26.2	29.7	15.3		
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	• 10.1	10.4	14.3		

Report Id: GFL207 [WCAMIS] 02607668 (Generated: 02/02/2024 11:22:28) Rev: 1

Submitted By: Shane Cater







Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 207 - Pickering SW CALA Sample No. Recieved : 10 Jan 2024 1034 TOY AVENUE, PICKERING YARD : GFL0102711 Lab Number PICKERING, ON : 02607668 Diagnosed : 02 Feb 2024 ISO 17025:2017 Diagnostician : Bill Quesnel Accredited : 5708754 CA L1W 3P1 Unique Number 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.