

WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION ABNORMAL

Machine Id 0149 Component Diesel Engine Fluid PETRO CANADA DURON HP 15W40 (24 LTR)

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

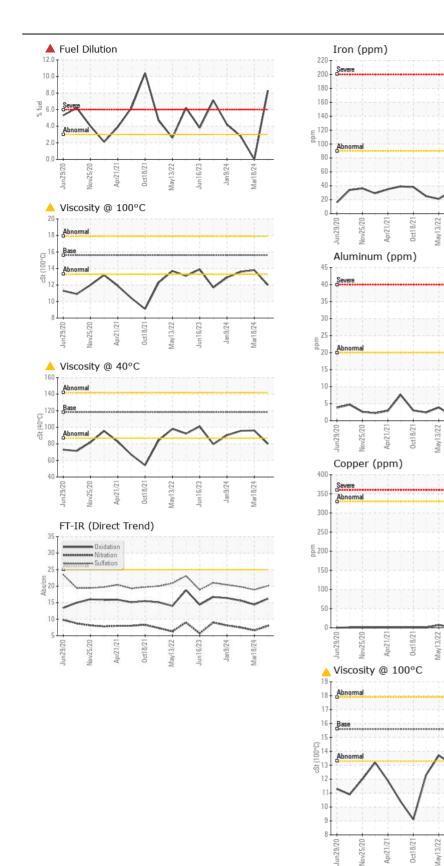
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

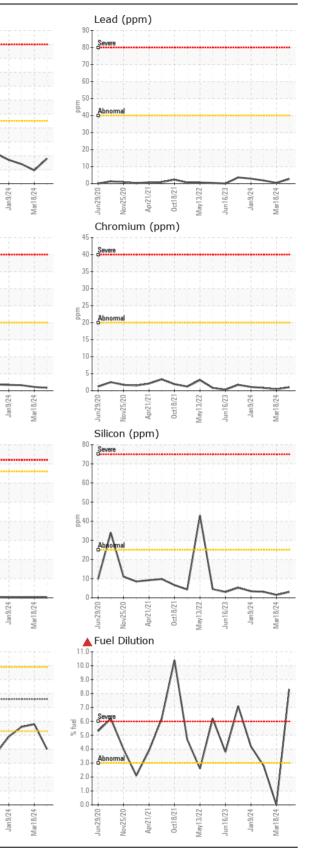
FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

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	Test	UOM	Method	Limit/Abn	Cı	urrent	History1	History2
	Sample Number		Client Info		PC	0078397	PC0080342	PC0082733
	Sample Date		Client Info		27	May 2024	18 Mar 2024	07 Feb 2024
	Machine Age	kms	Client Info		11	64205	1150720	1144286
	Oil Age	kms	Client Info		13	400	16263	9829
	Filter Age	kms	Client Info		13	400	16263	9829
	Oil Changed		Client Info		Cł	nanged	Changed	Changed
	Filter Changed		Client Info		Cł	nanged	Changed	Changed
	Sample Status				SE	EVERE	NORMAL	MARGINAL
	Iron	ppm	ASTM D5185(m)	>90		36	19	28
	Chromium	ppm	ASTM D5185(m)	>20		1	<1	<1
	Nickel	ppm	ASTM D5185(m)	>2		<1	0	<1
	Titanium	ppm	ASTM D5185(m)	>2		0	0	0
	Silver	ppm	ASTM D5185(m)	>2		0	0	0
	Aluminum	ppm	ASTM D5185(m)	>20		<1	1	2
	Lead	ppm	ASTM D5185(m)	>40		3	<1	2
	Copper	ppm	ASTM D5185(m)	>330		<1	<1	<1
	Tin	ppm	ASTM D5185(m)	>15		0	0	0
	Vanadium	ppm	ASTM D5185(m)			0	0	0
		1-1-						
	Silicon	ppm	ASTM D5185(m)	>25		3	2	3
	Potassium	ppm	ASTM D5185(m)	>20		<1	<1	<1
	Fuel	%	ASTM D7593*	>3.0		8.3	<1.0	2 .8
	Water		WC Method	>0.2		NEG	NEG	NEG
	Glycol		WC Method			NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>6		0.5	0.2	0.4
	Nitration	Abs/cm	ASTM D7624*	>20		8.0	6.6	7.5
	Sulfation	Abs/.1mm	ASTM D7415*	>30		20.1	18.9	19.8
	Emulsified Water	scalar	Visual*	>0.2		NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)			6	4	4
	Boron	ppm	ASTM D5185(m)	0		1	2	5
	Barium	ppm	ASTM D5185(m)	0		0	0	0
	Molybdenum	ppm	ASTM D5185(m)	60		59	58	60
	Manganese	ppm	ASTM D5185(m)	0		<1	<1	0
	Magnesium	ppm	ASTM D5185(m)	1010		979	984	990
	Calcium	ppm	ASTM D5185(m)	1070		1062	1083	1142
	Phosphorus	ppm	ASTM D5185(m)	1150		996	969	1000
	Zinc	ppm	ASTM D5185(m)	1270		1199	1167	1201
	Sulfur	ppm	ASTM D5185(m)	2060		2279	2412	2574
	Oxidation	Abs/.1mm	ASTM D7414*	>25		16.2	14.4	15.6
	Visc @ 40°C	cSt	ASTM D7279(m)	118.2		80.0	96.1	95.7
	Visc @ 100°C	cSt	ASTM D7279(m)	15.6		12.0	13.8	13.6
	Viscosity Index (VI)	Scale	ASTM D2270*	139		144	145	143
					-		ibmitted By:	Don Einlow

Submitted By: Dan Finlay





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Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received : 05 Jun 2024 : PC0078397 Lab Number : 02639827 Tested : 07 Jun 2024 ISO 17025:2017 Accredited Unique Number : 5788989 : 07 Jun 2024 - Wes Davis Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI) 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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