WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE SEVERE

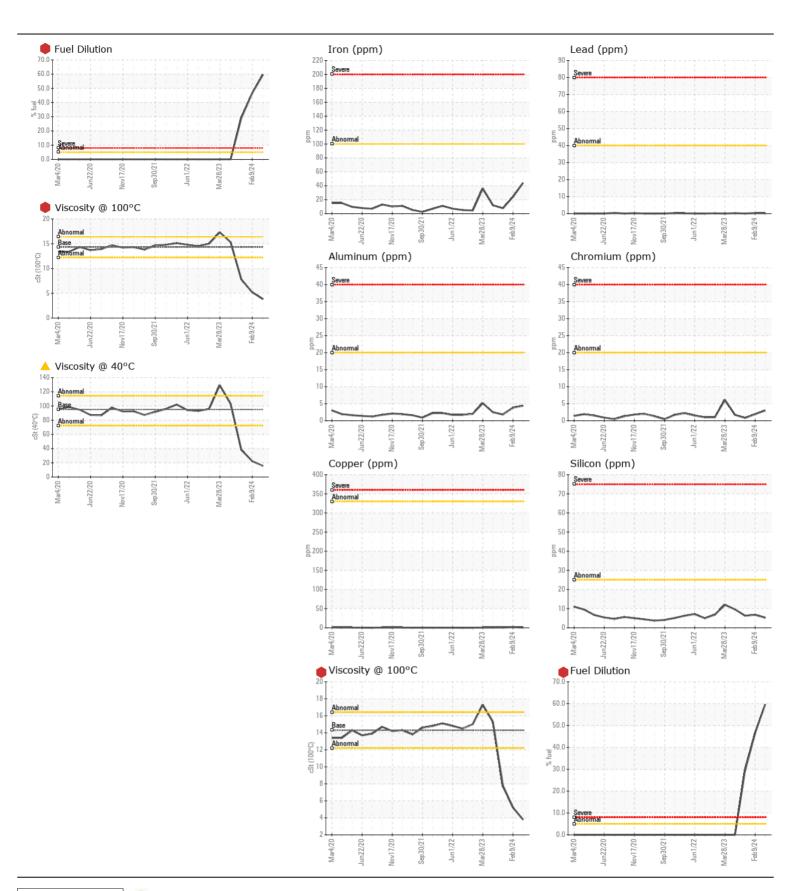
Machine Id

RST9963

Component

Diesel Engine

PETRO CANADA DURON UHP 5W40 (8 LTR) 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	Test Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status	hrs hrs	Method Client Info	Limit/Abn	Current PC0078317 14 Feb 2024 6249	History1 PC0078299 09 Feb 2024	History2 PC0082050
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.	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed	hrs hrs	Client Info Client Info Client Info Client Info Client Info	Limit/Abn	PC0078317 14 Feb 2024	PC0078299	,
that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed	hrs	Client Info Client Info Client Info Client Info		14 Feb 2024		PC0082050
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done. We recommend an early resample to monitor this condition.	Oil Age Filter Age Oil Changed Filter Changed	hrs	Client Info Client Info		6249		30 Jan 2024
	Filter Age Oil Changed Filter Changed		Client Info		-	9963	6023
WEAR	Oil Changed Filter Changed	hrs			0	0	250
WEAR	Filter Changed		Client Into		0	0	250
WEAR			011 . 1 .		N/A	Not Changd	Changed
WFAR			Client Info		N/A SEVERE	Not Changd SEVERE	Changed SEVERE
	Iron	ppm	ASTM D5185(m)	>100	44	24	8
	Chromium	ppm	ASTM D5185(m)	>20	3	2	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)		0	<1	0
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>20	4	4	2
	Lead	ppm	ASTM D5185(m)	>40	<1	<1	0
	Copper	ppm	ASTM D5185(m)		<1	2	<1
	Tin	ppm	ASTM D5185(m)		0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	White Metal	scalar	Visual*	NONE	VLITE	VLITE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	5	7	6
SSITTAIMITATION	Potassium	ppm	ASTM D5185(m)		<1	<1	<1
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D7593*	>5	59.6	46.5	29.3
	Water		WC Method	_	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.1	0.1	0
	Nitration	Abs/cm	ASTM D7624*	>20	9.0	8.6	7.7
	Sulfation	Abs/.1mm	ASTM D7415*	>30	17.1	17.9	18.1
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
	Appearance	scalar	Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2	2	2
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185(m)	65	17	24	35
	Barium	ppm	ASTM D5185(m)	0	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	65	23	30	37
	Manganese	ppm	ASTM D5185(m)	0	0	0	0
	Magnesium	ppm	ASTM D5185(m)	1160	450	▲ 564	724
	Calcium	ppm	ASTM D5185(m)	820	334	4 15	539
	Phosphorus	ppm	ASTM D5185(m)	1160	394	▲ 510	673
	Zinc	ppm	ASTM D5185(m)	1260	473	▲ 605	772
	Sulfur	ppm	ASTM D5185(m)	3000	1009	1 409	1928
	Oxidation	Abs/.1mm	ASTM D7414*	>25	15.3	15.4	15.2
	Visc @ 40°C	cSt		95.1	15.6	<u>^</u> 22.3	▲ 38.3
	Visc @ 100°C	cSt		14.3	3.8	5.2	1.8
	Viscosity Index (VI)	Scale	ASTM D2270*	169	138	176	179





CALA ISO 17025:2017 Accredited Laboratory

Report Id: GFL286 [WCAMIS] 02617405 (Generated: 02/23/2024 09:31:56) Rev: 1

Laboratory Sample No. Lab Number

: PC0078317

: 02617405 Unique Number : 5734515

Received : 22 Feb 2024 : 23 Feb 2024 **Tested** : 23 Feb 2024 - Wes Davis Diagnosed Test Package: MOB 1 (Additional Tests: KV40, PercentFuel, VI, Visual)

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.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations 151 Ram Forest Rd,

Stouffville, ON CA L4A 2G8

Contact: Shannon Abbott sabbott@gipi.com T: (905)750-5900

Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: Shannon Abbott - GFL286

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