

#### Machine Id 15155 Component Front Diesel Engine Fluid PETRO CANADA DURON SHP 10W30 (18 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

All component wear rates are normal.

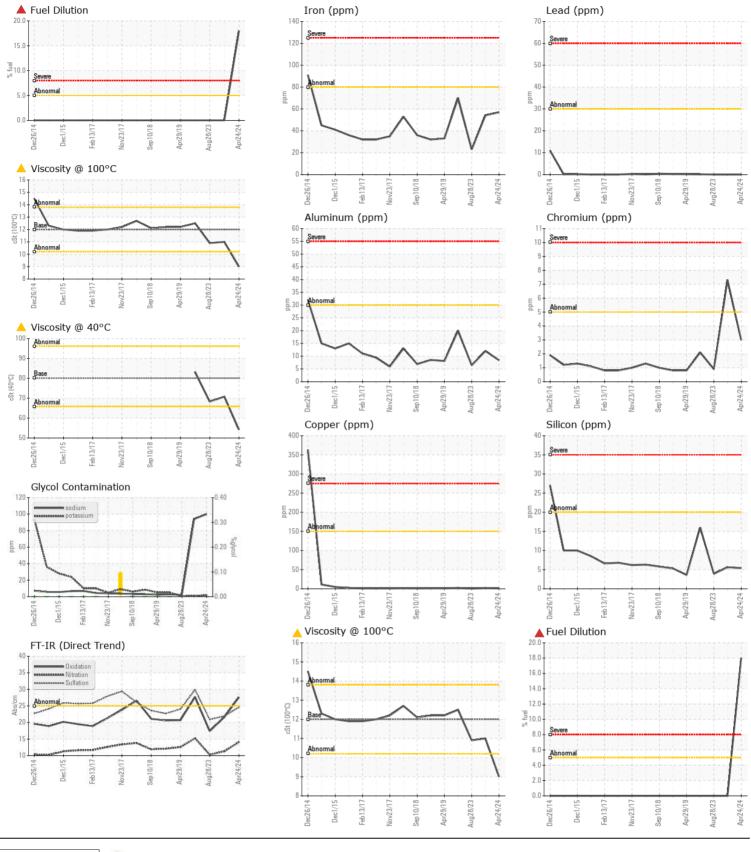
## CONTAMINATION

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		PC0083060	PC0071272	PC0071882
Sample Date		Client Info		24 Apr 2024	09 Nov 2023	28 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>80	57	54	23
Chromium	ppm	ASTM D5185(m)	>5	3	<b>A</b> 7	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	8	12	6
Lead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)	>150	1	2	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Cilliner				<b>F</b>		4
Silicon	ppm	ASTM D5185(m)	>20	5 2	6	4
Potassium	ppm	ASTM D5185(m)	>20	_	<1	<1
Fuel	%	ASTM D7593*	>5	▲ 18	<1.0	<1.0
Water	0(	WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*	0	0.0	0.0	NEG
Soot %	%	ASTM D7844*	>3	0.7	0.4	0.5
Nitration	Abs/cm	ASTM D7624* ASTM D7415*	>20 >30	14.1 24.6	11.3 21.9	10.3 20.9
Sulfation Silt	Abs/.1mm scalar	Visual*	>30 NONE	24.6 NONE	NONE	20.9
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			>0.2	NEG	NEG	NEG
	Scalai	Visual	20.2		NLG	NLG
Sodium	ppm	ASTM D5185(m)		100	94	2
Boron	ppm	ASTM D5185(m)	2	6	5	8
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	49	58	60
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	751	903	946
Calcium	ppm	ASTM D5185(m)	1050	846	987	1046
Phosphorus	ppm	ASTM D5185(m)	995	771	936	1024
Zinc	ppm	ASTM D5185(m)	1180	922	1106	1172
Sulfur	ppm	ASTM D5185(m)	2600	1910	2325	2509
Oxidation	Abs/.1mm	ASTM D7414*	>25	27.6	21.6	17.4
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	<b>6</b> 54.2	70.8	68.3
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>4</b> 9.0	11.0	10.9
Viscosity Index (VI)	Scale	ASTM D2270*	144	146	145	150
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### 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.



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Wasteco CALA Sample No. 161 Bridgeland Ave. : PC0083060 Received : 29 Apr 2024 2 Lab Number Toronto, ON : 02631869 Tested : 30 Apr 2024 ISO 17025:2017 Accredited : 30 Apr 2024 - Kevin Marson CA M6A 1Z1 Unique Number : 5773022 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KV40, PercentFuel, VI, Visual )Contact: Steve Andrade To discuss this sample report, contact Customer Service at 1-800-268-2131. sandrade@wasteco.com Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (416)787-5000 F: (416)787-6210 Validity of results and interpretation are based on the sample and information as supplied.