

Machine Id **1203** Component **Diesel Engine** Fluid **PETRO CANADA DURON HP 15W40 (24 LTR)**

R	JIVIIV	IEND	ΑΠ	

The oil change at the time of sampling has been noted. No other corrective action is recommended at this time. (Customer Sample Comment: Oil interval over by 1430km)



All component wear rates are normal.

CONTAMINATION

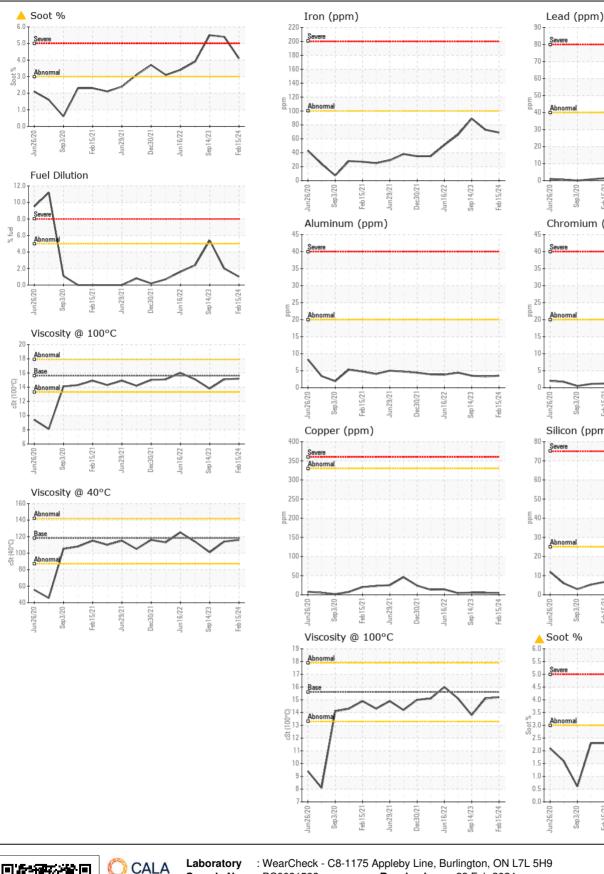
FLUID CONDITION

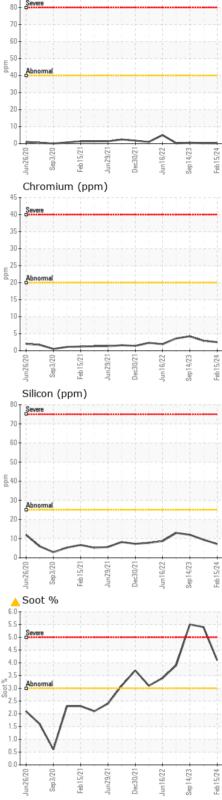
Light fuel dilution occurring. Light concentration of carbon/soot present in the oil. No other contaminants were detected in the oil.

.....

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0081598	PC0077859	PC0031538
Sample Date		Client Info		15 Feb 2024	29 Nov 2023	14 Sep 2023
Machine Age	kms	Client Info		675250	661820	647861
Oil Age	kms	Client Info		13430	13959	12521
Filter Age	kms	Client Info		13430	13959	12521
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	SEVERE	SEVERE
Iron	ppm	ASTM D5185(m)	>100	69	73	89
Chromium	ppm	ASTM D5185(m)	>20	2	3	4
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	0	0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	4	3	4
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	4	5	6
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE		
 Yellow Metal	scalar	Visual*	NONE	NONE		
Silicon	ppm	ASTM D5185(m)	>25	7	9	12
Potassium	ppm	ASTM D5185(m)	>20	1	1	2
Fuel	%	ASTM D7593*	>5	1	2	5 .4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	4 .1	6 5.4	5 .5
Nitration	Abs/cm	ASTM D7624*	>20	14.7	16.3	15.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	30.4	35.4	35.5
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
 Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		43	47	12
Boron	ppm	ASTM D5185(m)	0	3	6	9
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	67	66	57
Manganese	ppm	ASTM D5185(m)	0	<1	<1	1
Magnesium	ppm	ASTM D5185(m)	1010	1067	1053	893
Calcium	ppm	ASTM D5185(m)	1070	1230	1282	1319
Phosphorus	ppm	ASTM D5185(m)	1150	1108	1110	1009
Zinc	ppm	ASTM D5185(m)	1270	1299	1355	1265
Sulfur	ppm	ASTM D5185(m)	2060	2635	2535	2388
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.5	20.8	20.2
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	116	114	101
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	15.2	15.1	13.8
Viscosity Index (VI)	Scale	ASTM D2270*	139	136	137	137
/				\sim		





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received : 23 Feb 2024 : PC0081598 Lab Number : 26 Feb 2024 : 02617585 Tested ISO 17025:2017 : 26 Feb 2024 - Kevin Marson Accredited Unique Number : 5734695 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, 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. Validity of results and interpretation are based on the sample and information as supplied.

Metrobus Transit 25 Messenger Drive St. John`s, NL CA A1B 0H6 Contact: Danny Oliver danny.oliver@metrobus.com T: (709)570-2025 F:

Ľ2

Submitted By: Dan Finlay Page 2 of 2