



WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
FORD 151
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (14 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083428	PC0082128	PC0071661
Sample Date		Client Info		08 Jun 2024	02 Jan 2024	06 Jun 2023
Machine Age	kms	Client Info		96510	78477	57690
Oil Age	kms	Client Info		18033	20787	27126
Filter Age	kms	Client Info		18033	20787	27126
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	85	136	187
Chromium	ppm	ASTM D5185(m)	>20	4	8	8
Nickel	ppm	ASTM D5185(m)	>2	<1	1	1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	2	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	3	5	5
Lead	ppm	ASTM D5185(m)	>40	0	<1	1
Copper	ppm	ASTM D5185(m)	>330	3	3	7
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	<1
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

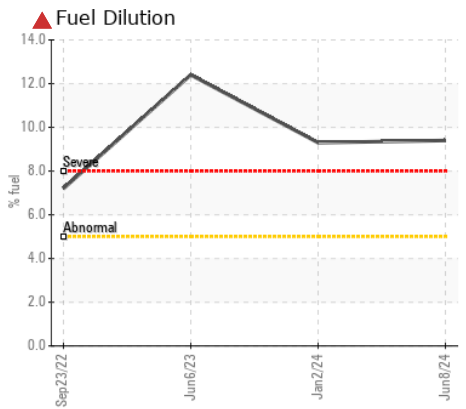
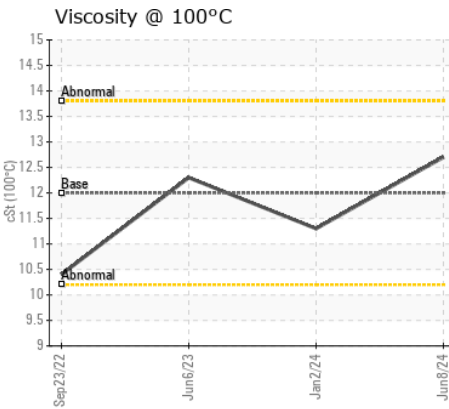
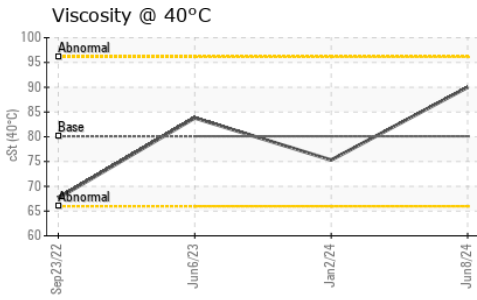
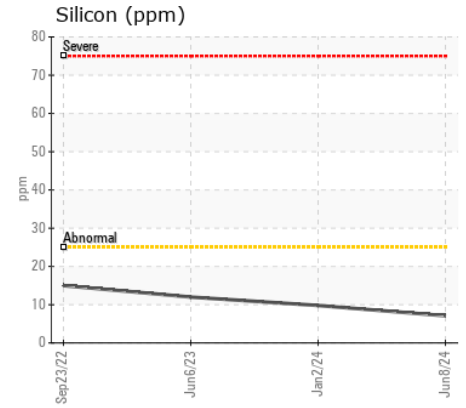
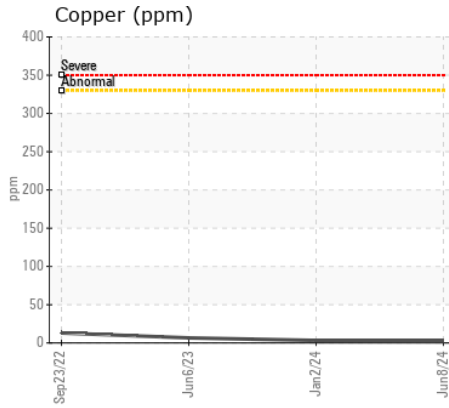
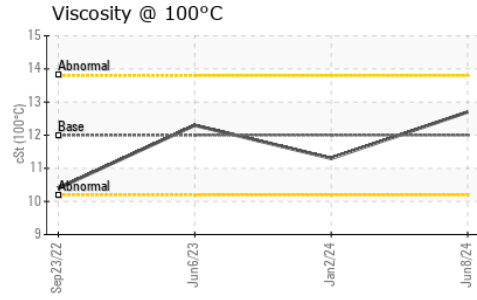
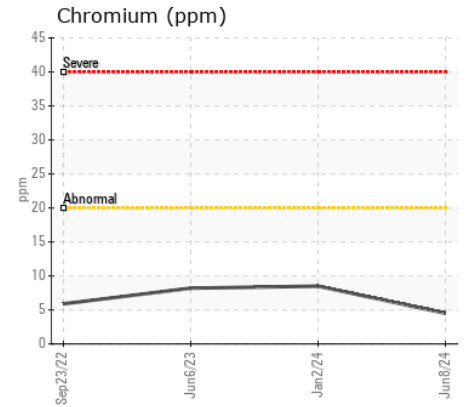
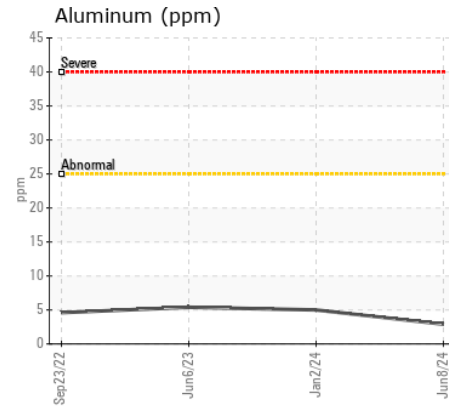
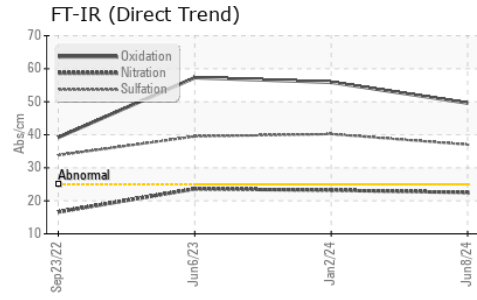
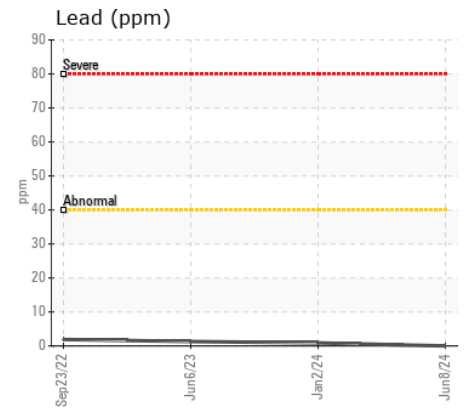
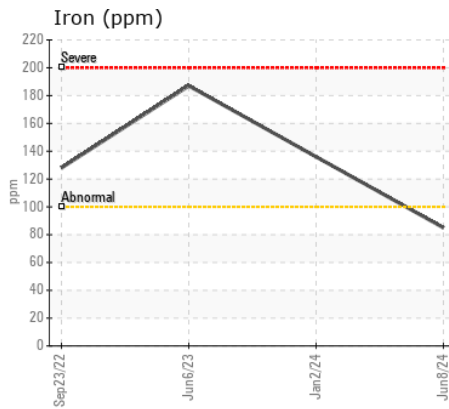
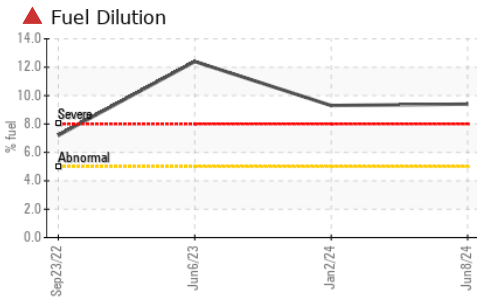
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	10	12
Potassium	ppm	ASTM D5185(m)	>20	1	1	2
Fuel	%	ASTM D7593*	>5	▲ 9.4	▲ 9.3	▲ 12.4
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.6	1	1.1
Nitration	Abs/cm	ASTM D7624*	>20	22.5	23.2	23.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	37.0	40.2	39.5
Silt	scalar	Visual*	NONE	VLITE	VLITE	---
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

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

Sodium	ppm	ASTM D5185(m)		8	9	8
Boron	ppm	ASTM D5185(m)	2	3	<1	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	62	60	53
Manganese	ppm	ASTM D5185(m)	0	1	2	3
Magnesium	ppm	ASTM D5185(m)	950	993	968	870
Calcium	ppm	ASTM D5185(m)	1050	1125	1076	1024
Phosphorus	ppm	ASTM D5185(m)	995	1006	1033	971
Zinc	ppm	ASTM D5185(m)	1180	1239	1209	1102
Sulfur	ppm	ASTM D5185(m)	2600	2278	2377	2067
Oxidation	Abs/.1mm	ASTM D7414*	>25	49.6	55.9	57.3
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	90.0	75.3	▲ 83.8
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	12.7	11.3	▲ 12.3
Viscosity Index (VI)	Scale	ASTM D2270*	144	138	141	142



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083428
Lab Number : 02643694
Unique Number : 5801233
Test Package : MOB 1 (Additional Tests: KV40, PercentFuel, VI, Visual)

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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.