



Area
R/L
Machine Id
11208
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (20 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083061	PC0071324	---
Sample Date		Client Info		25 Apr 2024	05 Mar 2024	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	57	▲ 123	---
Chromium	ppm	ASTM D5185(m)	>20	2	3	---
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	5	● 13	---
Lead	ppm	ASTM D5185(m)	>40	0	2	---
Copper	ppm	ASTM D5185(m)	>330	11	78	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

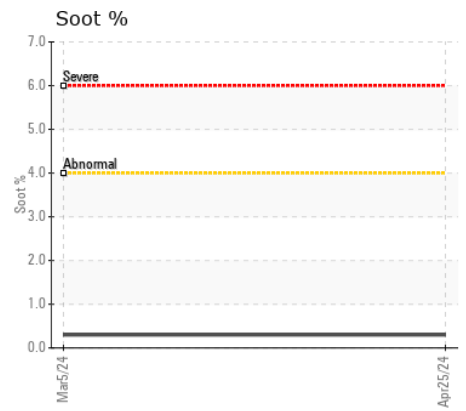
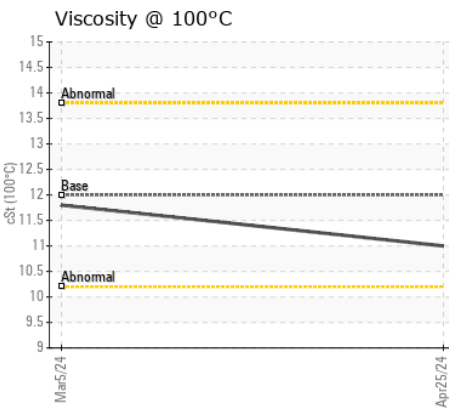
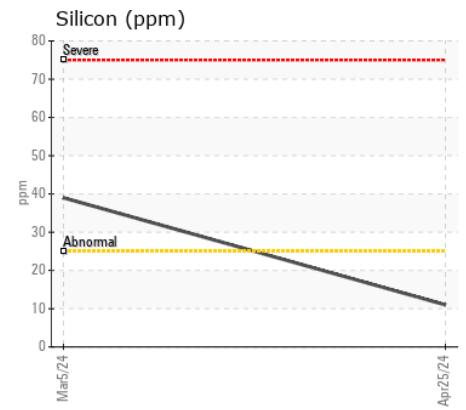
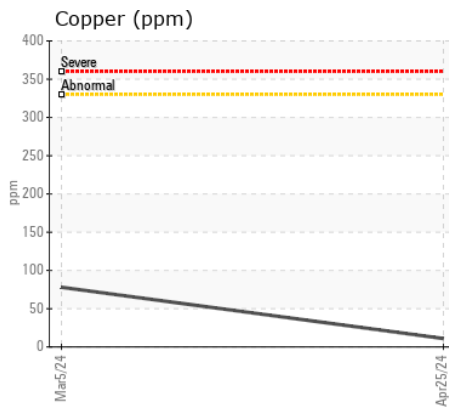
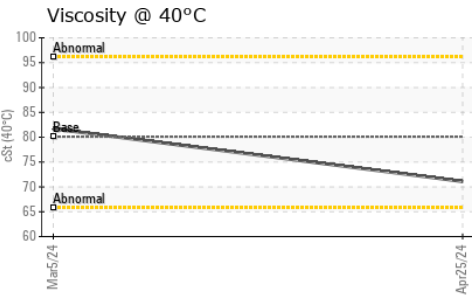
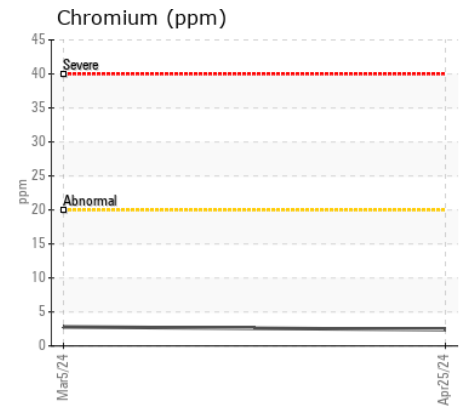
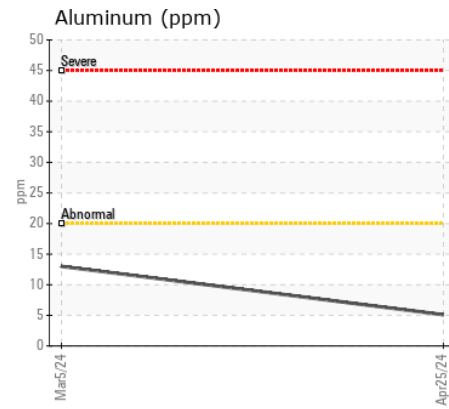
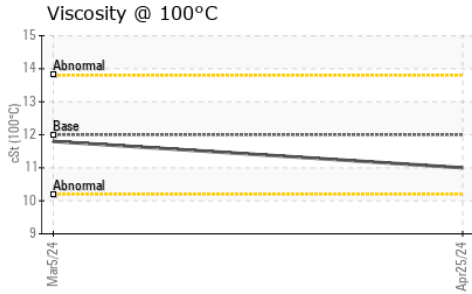
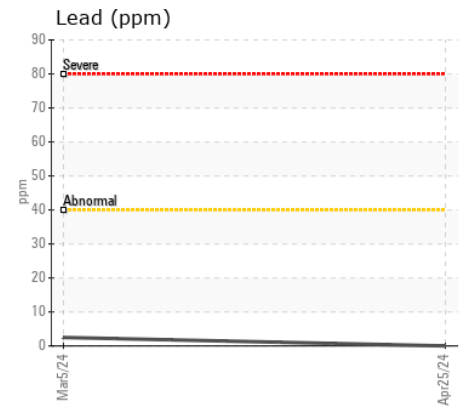
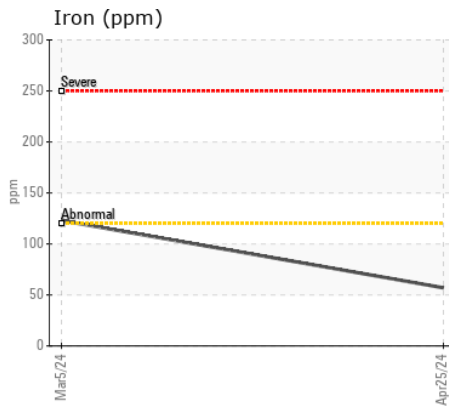
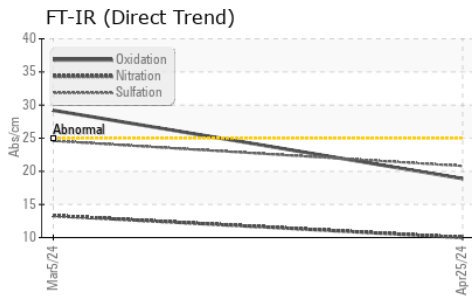
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	11	▲ 39	---
Potassium	ppm	ASTM D5185(m)	>20	3	19	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>4	0.3	0.3	---
Nitration	Abs/cm	ASTM D7624*	>20	10.0	13.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.8	24.6	---
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	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		4	7	---
Boron	ppm	ASTM D5185(m)	2	11	26	---
Barium	ppm	ASTM D5185(m)	0	<1	8	---
Molybdenum	ppm	ASTM D5185(m)	50	60	43	---
Manganese	ppm	ASTM D5185(m)	0	2	8	---
Magnesium	ppm	ASTM D5185(m)	950	901	548	---
Calcium	ppm	ASTM D5185(m)	1050	1104	1611	---
Phosphorus	ppm	ASTM D5185(m)	995	917	701	---
Zinc	ppm	ASTM D5185(m)	1180	1124	853	---
Sulfur	ppm	ASTM D5185(m)	2600	2232	1864	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.9	29.2	---
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	71.1	81.7	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.0	11.8	---
Viscosity Index (VI)	Scale	ASTM D2270*	144	145	137	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083061 **Received** : 29 Apr 2024
Lab Number : 02631866 **Tested** : 29 Apr 2024
Unique Number : 5773019 **Diagnosed** : 29 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, 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.

Wasteco
 161 Bridgeland Ave.
 Toronto, ON
 CA M6A 1Z1
 Contact: Steve Andrade
 sandrade@wasteco.com
 T: (416)787-5000
 F: (416)787-6210