



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
RO
Machine Id
13189
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083047	PC0083069	PC0061131
Sample Date		Client Info		29 Apr 2024	28 Apr 2024	20 Jul 2022
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				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	4	18	15
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	▲ 2
Aluminum	ppm	ASTM D5185(m)	>20	<1	2	3
Lead	ppm	ASTM D5185(m)	>40	0	0	2
Copper	ppm	ASTM D5185(m)	>330	<1	2	50
Tin	ppm	ASTM D5185(m)	>15	0	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

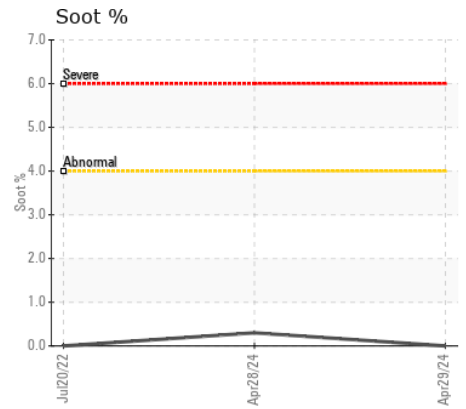
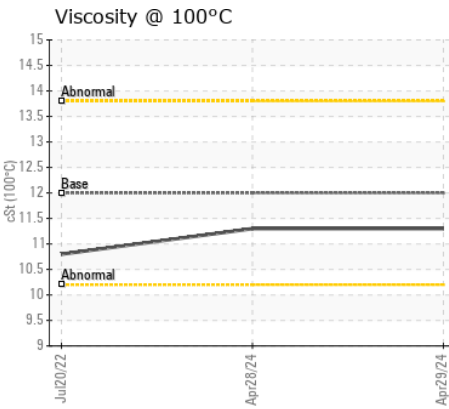
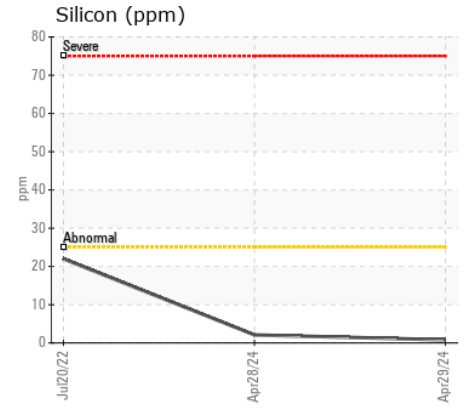
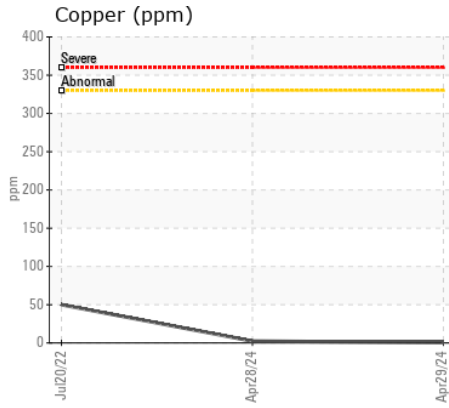
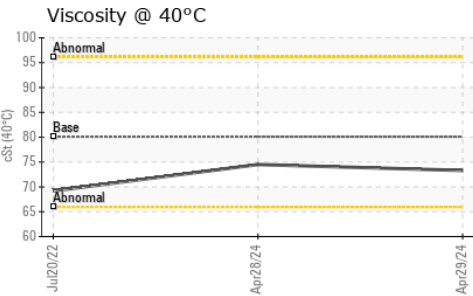
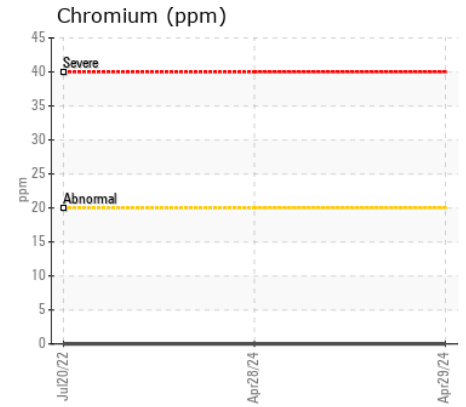
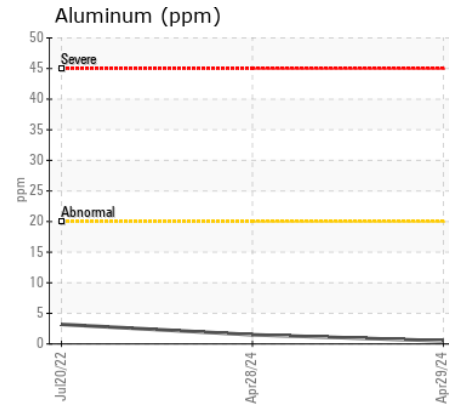
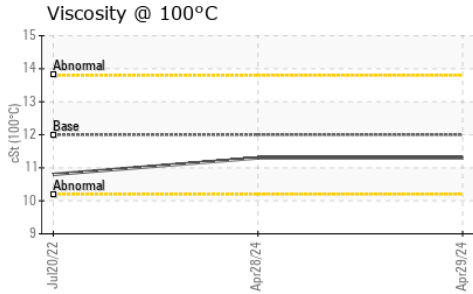
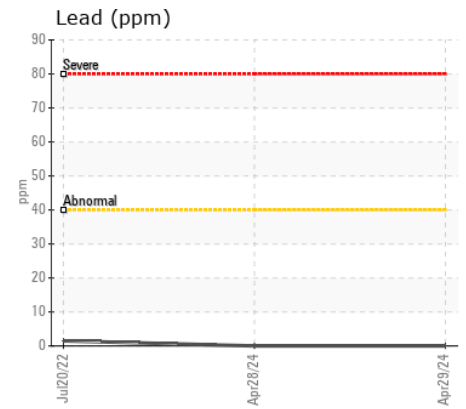
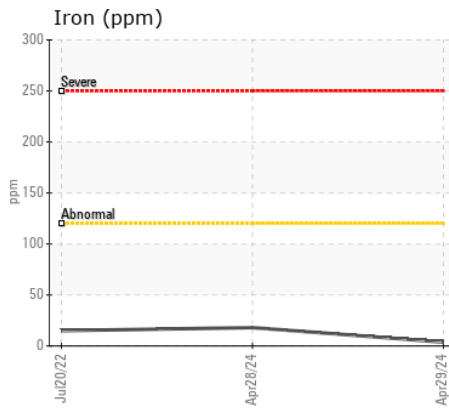
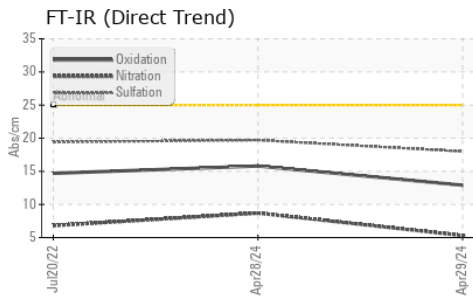
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<1	2	22
Potassium	ppm	ASTM D5185(m)	>20	0	2	2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0	0.3	0
Nitration	Abs/cm	ASTM D7624*	>20	5.3	8.7	6.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.0	19.7	19.4
Silt	scalar	Visual*	NONE	VLITE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		1	<1	2
Boron	ppm	ASTM D5185(m)	2	14	7	49
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	57	61	63
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	924	953	923
Calcium	ppm	ASTM D5185(m)	1050	1041	1060	1094
Phosphorus	ppm	ASTM D5185(m)	995	961	988	948
Zinc	ppm	ASTM D5185(m)	1180	1130	1166	1142
Sulfur	ppm	ASTM D5185(m)	2600	2549	2482	2643
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.9	15.8	14.7
Visc @ 40°C	cSt	ASTM D7279(m)	80.1	73.3	74.5	69.2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.3	11.3	10.8
Viscosity Index (VI)	Scale	ASTM D2270*	144	146	143	145



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0083047 **Received** : 24 May 2024
Lab Number : 02637428 **Tested** : 24 May 2024
Unique Number : 5786590 **Diagnosed** : 24 May 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.

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