



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
OR642
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 5W40 (23 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0088293	PC0075767	PC0072023
Sample Date		Client Info		01 May 2024	19 Jun 2023	21 Feb 2023
Machine Age	hrs	Client Info		17126	16005	15000
Oil Age	hrs	Client Info		0	500	0
Filter Age	hrs	Client Info		0	500	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>51	22	14	4
Chromium	ppm	ASTM D5185(m)	>11	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>31	2	<1	<1
Lead	ppm	ASTM D5185(m)	>26	0	0	0
Copper	ppm	ASTM D5185(m)	>26	<1	<1	0
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

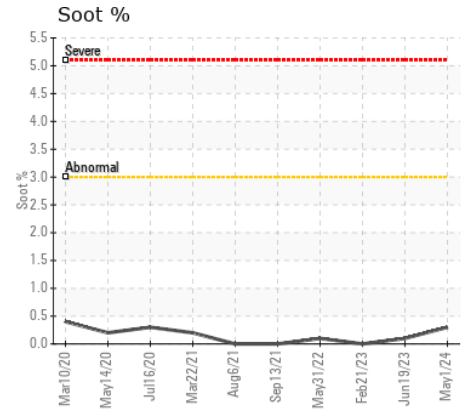
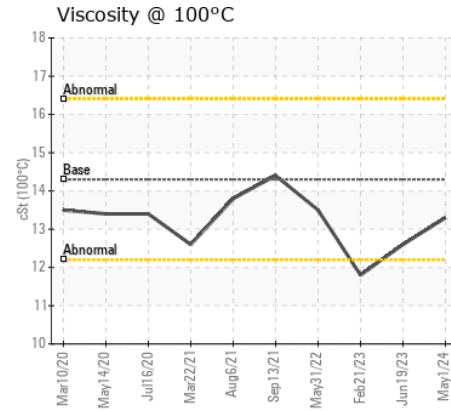
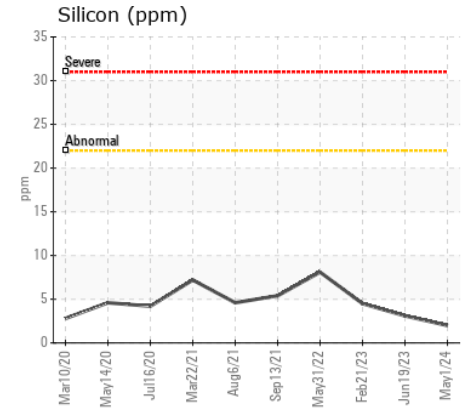
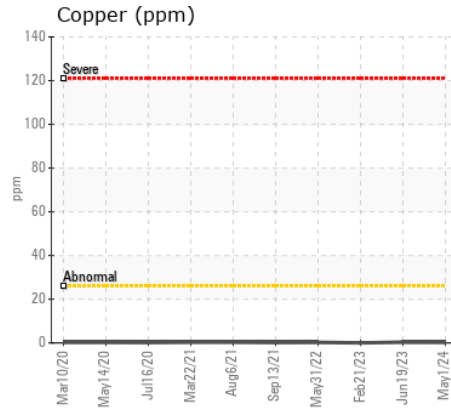
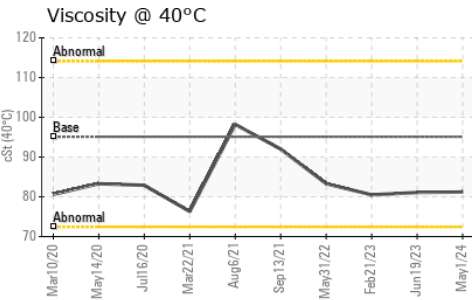
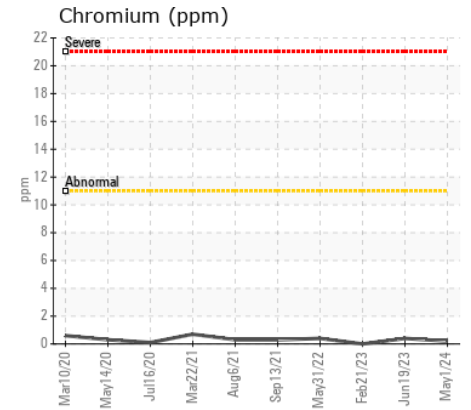
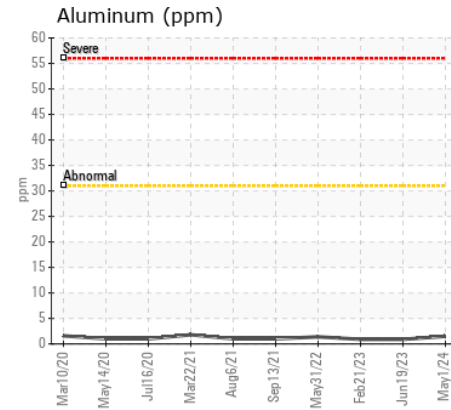
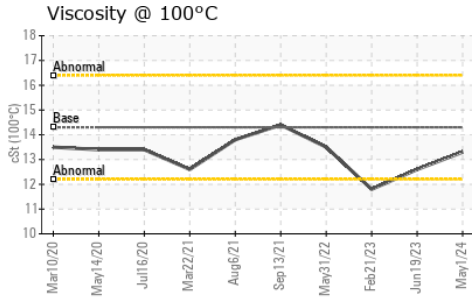
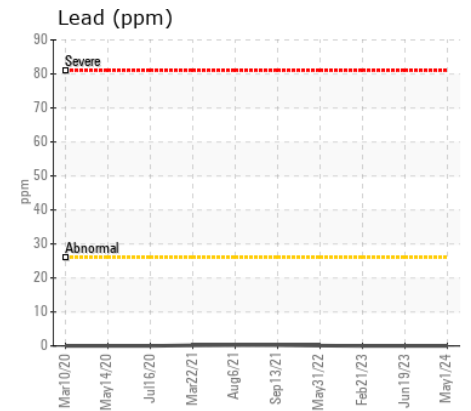
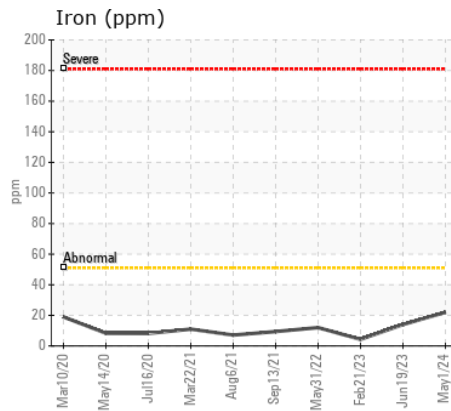
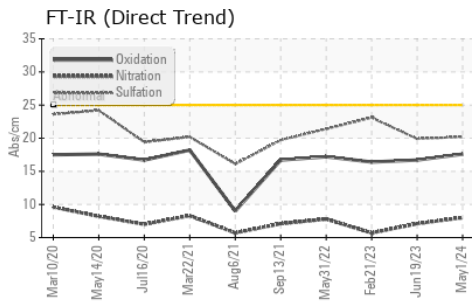
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	2	3	4
Potassium	ppm	ASTM D5185(m)	>20	<1	2	6
Fuel		WC Method	>2.1	<1.0	<1.0	1.1
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>3	0.3	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	8.0	7.1	5.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	19.9	23.1
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>31	5	4	2
Boron	ppm	ASTM D5185(m)	65	45	96	166
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	56	33	6
Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	1160	1065	590	118
Calcium	ppm	ASTM D5185(m)	820	844	1445	2062
Phosphorus	ppm	ASTM D5185(m)	1160	954	1024	1037
Zinc	ppm	ASTM D5185(m)	1260	1170	1144	1087
Sulfur	ppm	ASTM D5185(m)	3000	2691	2883	3012
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.6	16.7	16.4
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	81.2	81.1	80.5
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	13.3	12.6	▲ 11.8
Viscosity Index (VI)	Scale	ASTM D2270*	169	166	153	139



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0088293 **Received** : 10 May 2024
Lab Number : 02634528 **Tested** : 13 May 2024
Unique Number : 5775681 **Diagnosed** : 13 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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.