



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CR227
Component
Diesel Engine
Fluid
PETRO CANADA DURON UHP 5W40 (28 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0078309	PC	PC0048351
Sample Date		Client Info		23 Feb 2024	25 Oct 2023	12 Apr 2023
Machine Age	hrs	Client Info		22567	0	21390
Oil Age	hrs	Client Info		0	0	500
Filter Age	hrs	Client Info		0	0	500
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	26	20	5
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	3	<1
Lead	ppm	ASTM D5185(m)	>40	6	<1	1
Copper	ppm	ASTM D5185(m)	>330	4	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

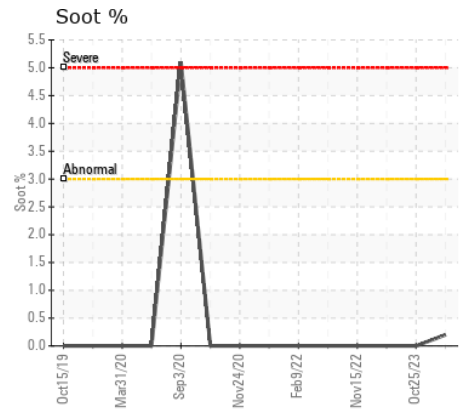
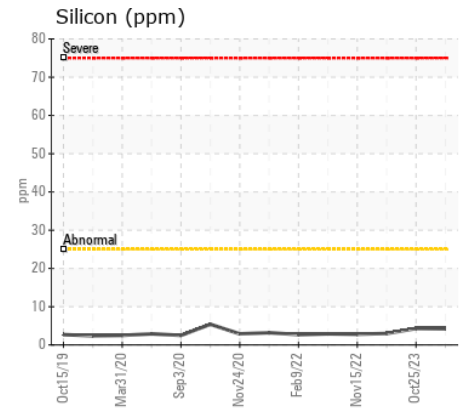
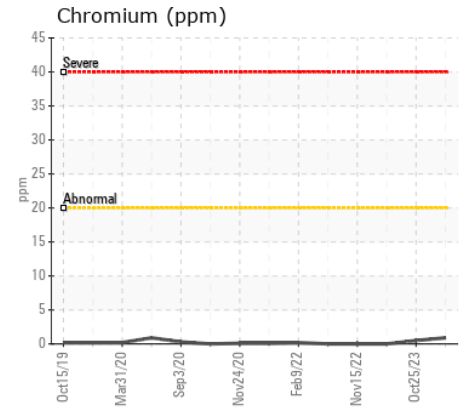
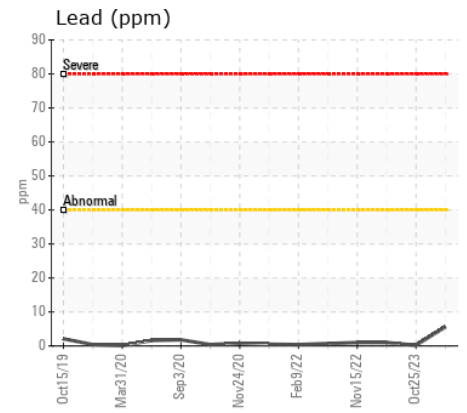
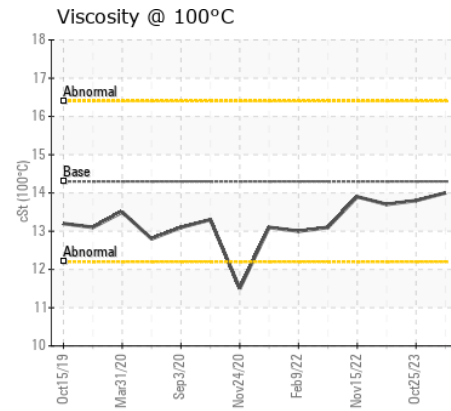
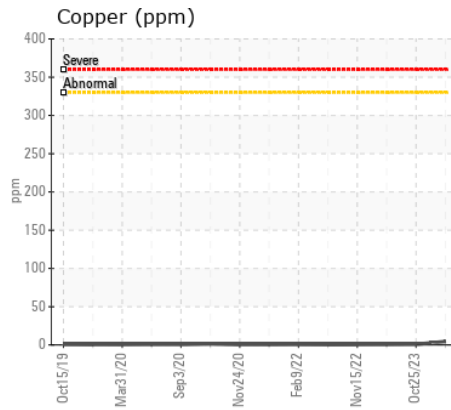
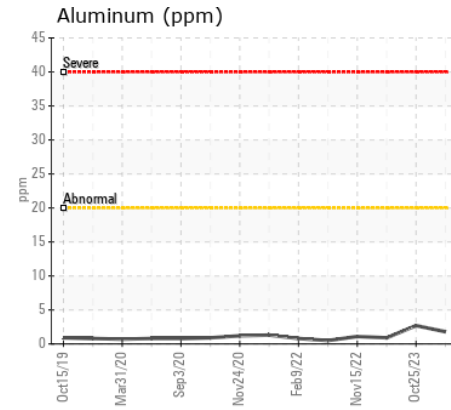
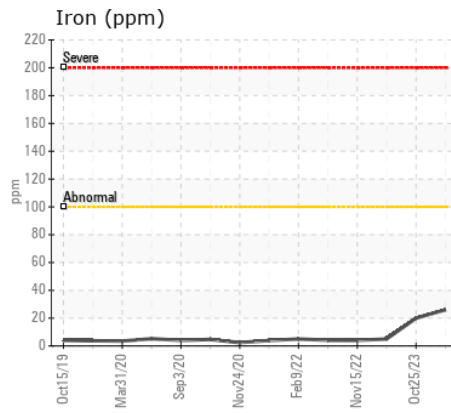
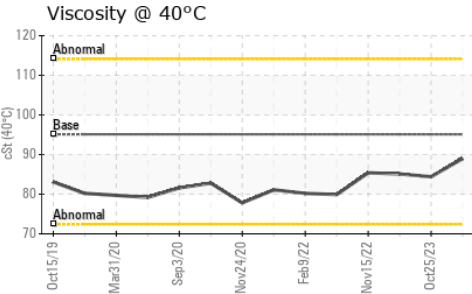
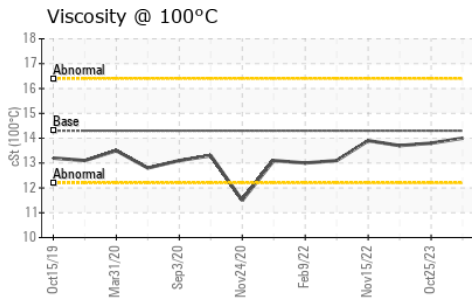
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	4	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.2	0	0
Nitration	Abs/cm	ASTM D7624*	>20	12.5	9.0	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.2	20.3	20.4
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)		5	5	4
Boron	ppm	ASTM D5185(m)	65	32	32	40
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	65	55	61	57
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1160	1059	1066	1093
Calcium	ppm	ASTM D5185(m)	820	819	838	856
Phosphorus	ppm	ASTM D5185(m)	1160	975	972	1087
Zinc	ppm	ASTM D5185(m)	1260	1137	1164	1206
Sulfur	ppm	ASTM D5185(m)	3000	2698	2727	2868
Oxidation	Abs/.1mm	ASTM D7414*	>25	25.6	18.7	20.0
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	89.0	84.4	85.1
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	14.0	13.8	13.7
Viscosity Index (VI)	Scale	ASTM D2270*	169	161	167	164



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078309
Lab Number : 02619152
Unique Number : 5736262
Test Package : MOB 1 (Additional Tests: KV40, VI)

Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations
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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.