



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
RST9963
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON UHP 5W40 (8 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0078376	PC0072944	PC0056498
Sample Date		Client Info		17 Nov 2023	28 Mar 2023	25 Nov 2022
Machine Age	hrs	Client Info		5941	2920	1041
Oil Age	hrs	Client Info		250	2000	0
Filter Age	hrs	Client Info		250	2000	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	12	36	4
Chromium	ppm	ASTM D5185(m)	>20	2	6	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	5	2
Lead	ppm	ASTM D5185(m)	>40	<1	0	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	0
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

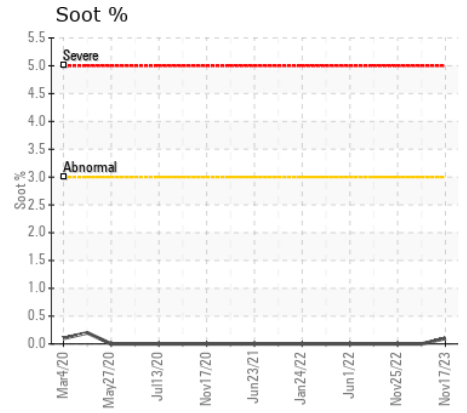
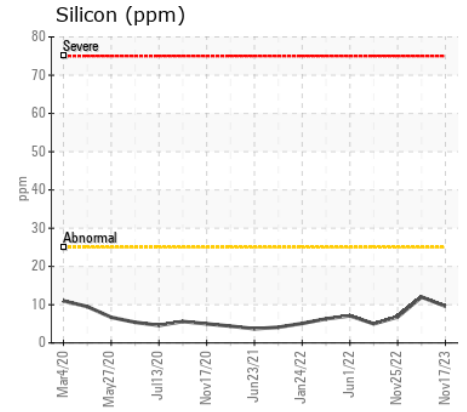
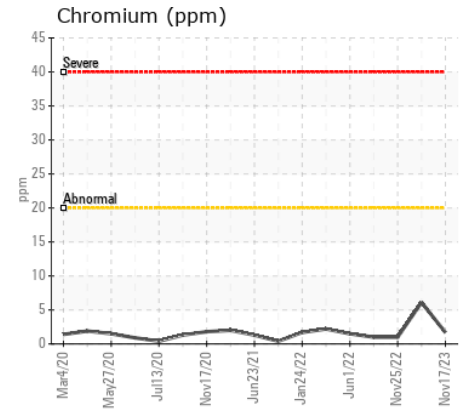
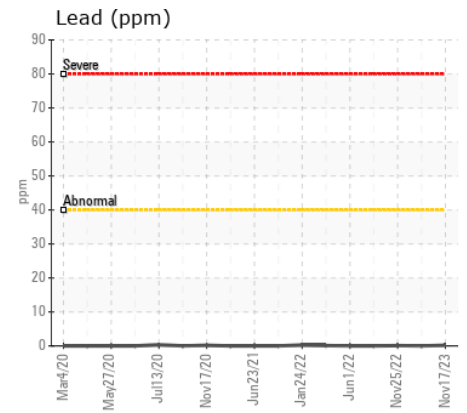
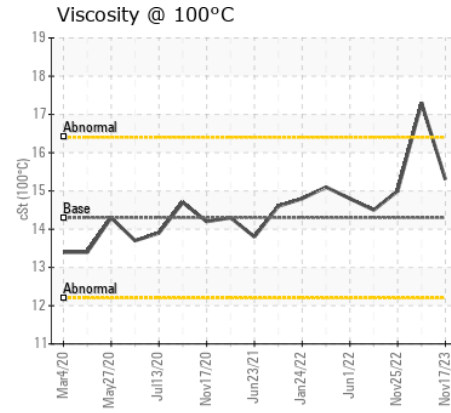
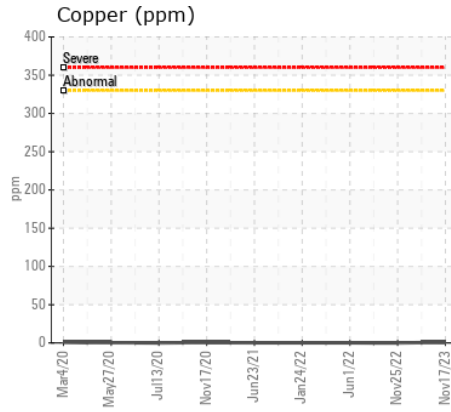
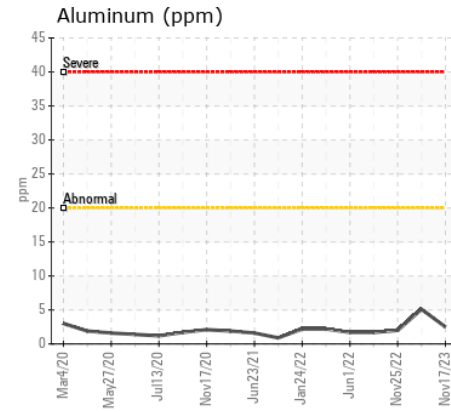
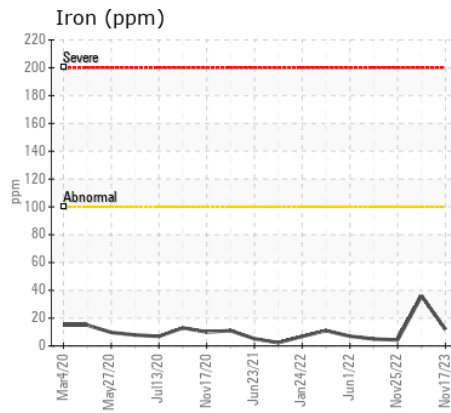
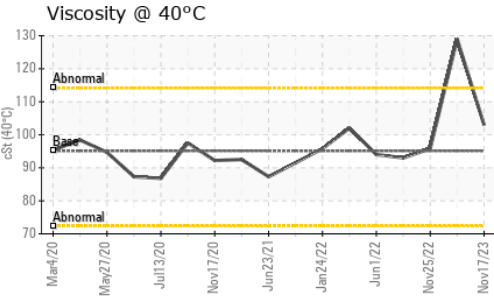
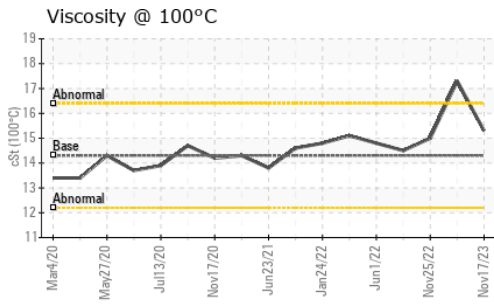
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	10	12	7
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
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	0.1	0	0
Nitration	Abs/cm	ASTM D7624*	>20	13.0	6.1	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.5	18.2	22.2
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	6	5
Boron	ppm	ASTM D5185(m)	65	28	42	42
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	65	58	67	59
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1160	1110	1263	1121
Calcium	ppm	ASTM D5185(m)	820	834	1000	866
Phosphorus	ppm	ASTM D5185(m)	1160	978	1147	1080
Zinc	ppm	ASTM D5185(m)	1260	1218	1385	1254
Sulfur	ppm	ASTM D5185(m)	3000	2709	2786	2827
Oxidation	Abs/.1mm	ASTM D7414*	>25	28.2	12.9	23.2
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	103	▲ 129	95.8
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	15.3	▲ 17.3	15.0
Viscosity Index (VI)	Scale	ASTM D2270*	169	156	147	164



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations
Sample No. : PC0078376 **Received** : 10 Jan 2024 151 Ram Forest Rd,
Lab Number : 02607722 **Diagnosed** : 11 Jan 2024 Stouffville, ON
Unique Number : 5708808 **Diagnostician** : Kevin Marson CA L4A 2G8
Test Package : MOB 1 (Additional Tests: KV40, VI) Contact: Shannon Abbott
sabbott@gipi.com

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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F: