

Machine Id
1204
Component
Rear Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0080271	PC0032172	PC0031578
Sample Date		Client Info		09 Jan 2024	29 Sep 2023	23 Jun 2023
Machine Age	kms	Client Info		714096	700068	687652
Oil Age	kms	Client Info		12936	12416	14080
Filter Age	kms	Client Info		12936	12416	14080
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	49	61	20
Chromium	ppm	ASTM D5185(m)	>20	1	2	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	3	10	2
Lead	ppm	ASTM D5185(m)	>40	2	1	<1
Copper	ppm	ASTM D5185(m)	>330	2	4	3
Tin	ppm	ASTM D5185(m)	>15	<1	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

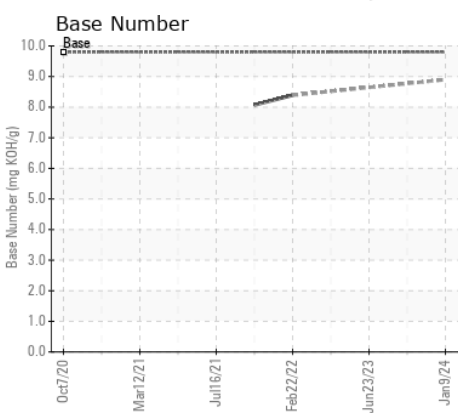
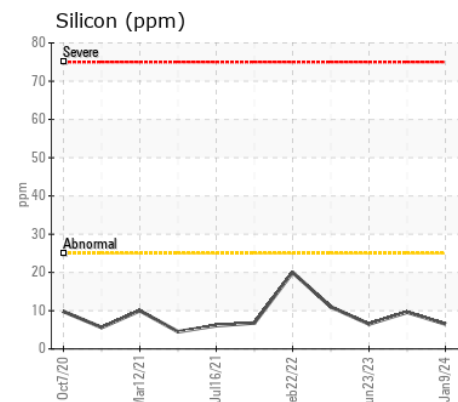
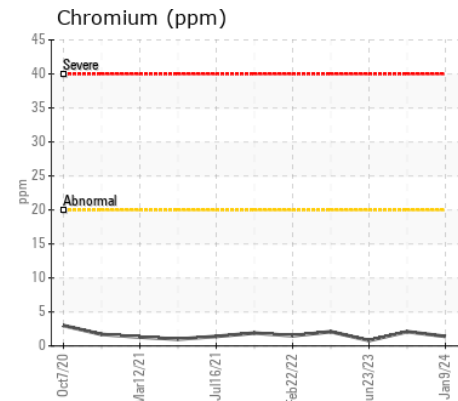
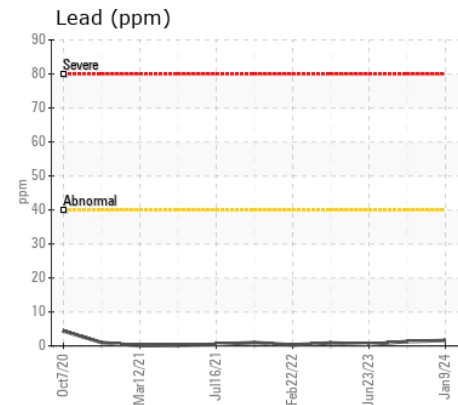
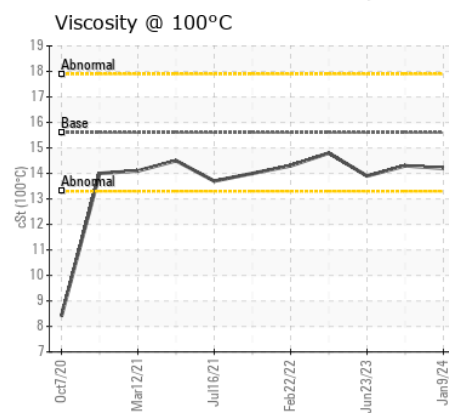
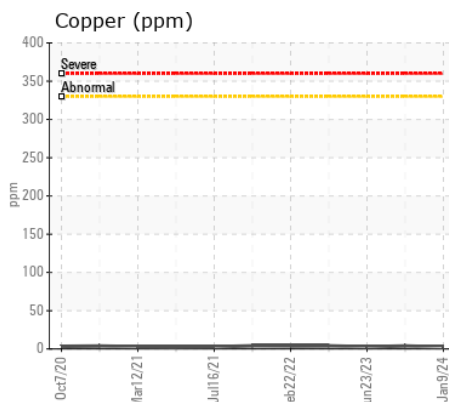
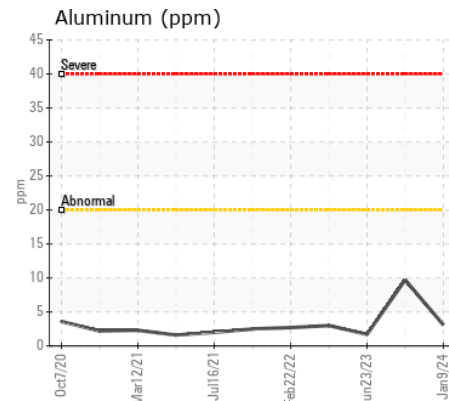
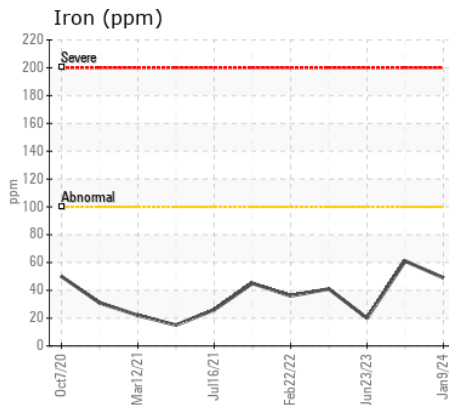
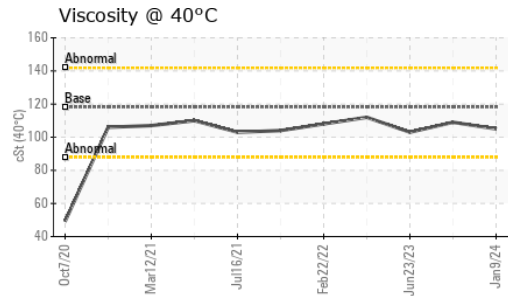
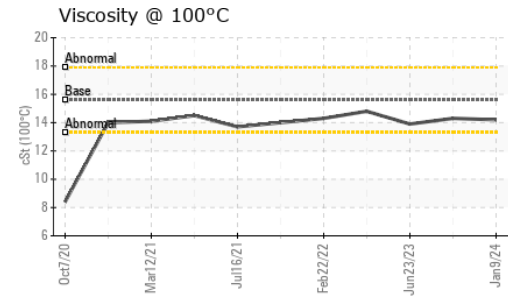
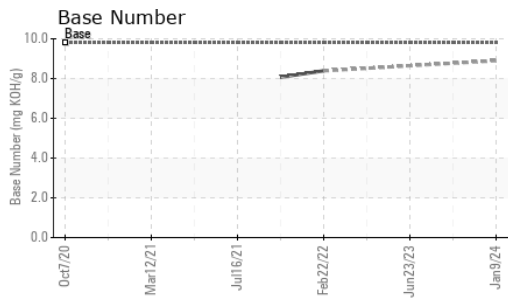
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	10	6
Potassium	ppm	ASTM D5185(m)	>20	1	16	4
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	0.0
Soot %	%	ASTM D7844*	>3	1.7	2.5	0.7
Nitration	Abs/cm	ASTM D7624*	>20	13.5	13.9	9.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.2	29.1	23.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		9	31	127
Boron	ppm	ASTM D5185(m)	0	4	6	25
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	68	68	49
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	1101	1067	697
Calcium	ppm	ASTM D5185(m)	1070	1258	1261	1516
Phosphorus	ppm	ASTM D5185(m)	1150	1145	1126	1116
Zinc	ppm	ASTM D5185(m)	1270	1382	1368	1250
Sulfur	ppm	ASTM D5185(m)	2060	2787	2616	2764
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.3	22.9	18.1
Base Number (BN)	mg KOH/g	ASTM D2896*	9.8	8.90	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	105	109	103
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.2	14.3	13.9
Viscosity Index (VI)	Scale	ASTM D2270*	139	137	133	136



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0080271 **Received** : 10 Jan 2024
Lab Number : 02607712 **Diagnosed** : 11 Jan 2024
Unique Number : 5708798 **Diagnostician** : Wes Davis
Test Package : MOB 2 (Additional Tests: KV40, VI)

Metrobus Transit
 25 Messenger Drive
 St. John's, NL
 CA A1B 0H6
 Contact: Danny Oliver
 danny.oliver@metrobus.com
 T: (709)570-2025
 F:

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.