

Machine Id
PIERCE 806 (S/N 4P1BCAGF1GA015960)
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (34 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0112913	PCA0100371	PCA0074332
Sample Date		Client Info		18 Dec 2023	12 Jul 2023	23 Jan 2023
Machine Age	mls	Client Info		18878	17971	17163
Oil Age	mls	Client Info		907	808	1740
Filter Age	mls	Client Info		907	808	1740
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	4	3	8
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	1	6
Lead	ppm	ASTM D5185m	>40	1	0	<1
Copper	ppm	ASTM D5185m	>330	20	4	19
Tin	ppm	ASTM D5185m	>15	2	0	2
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

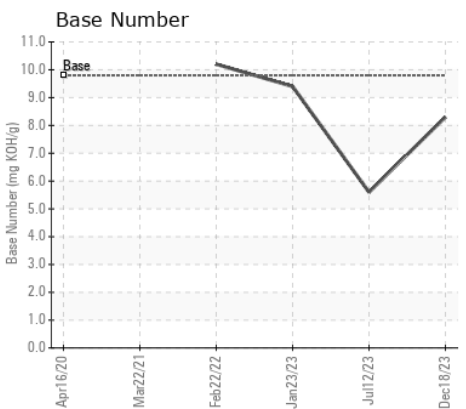
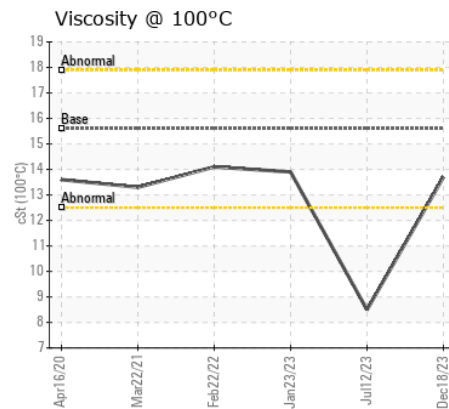
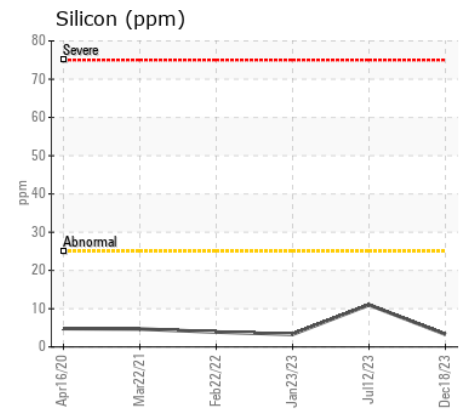
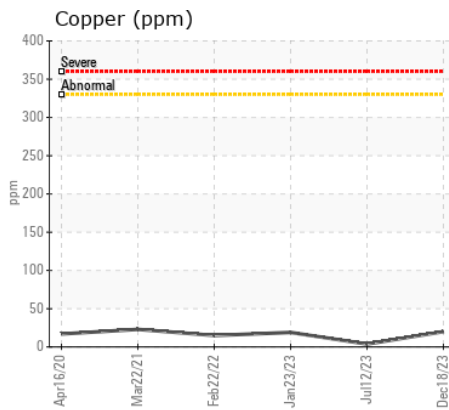
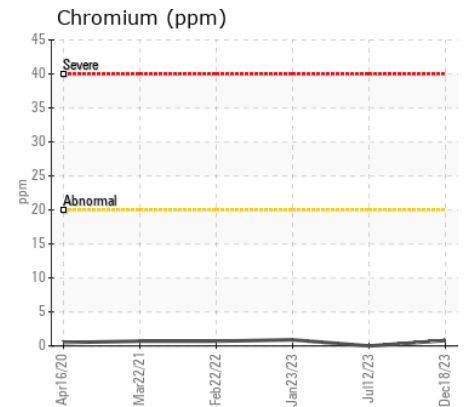
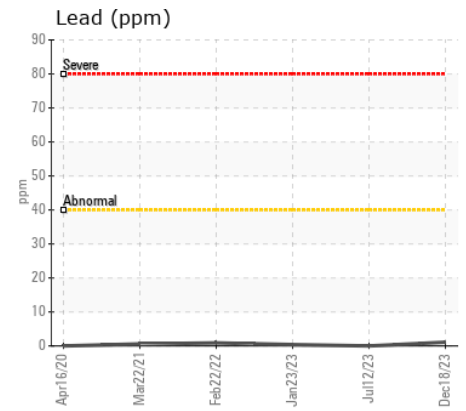
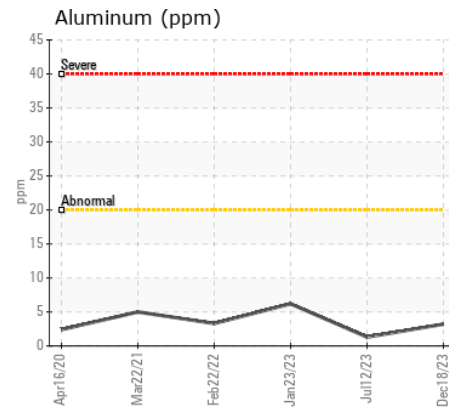
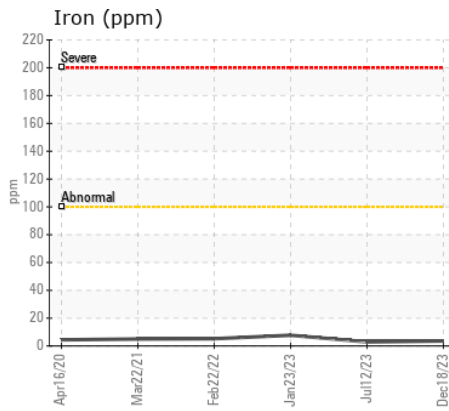
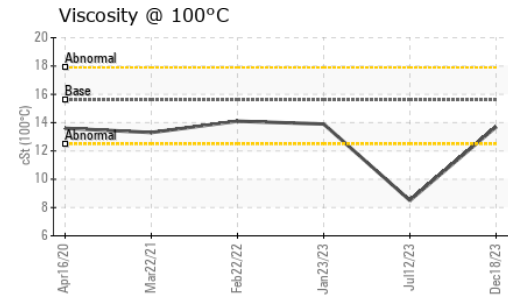
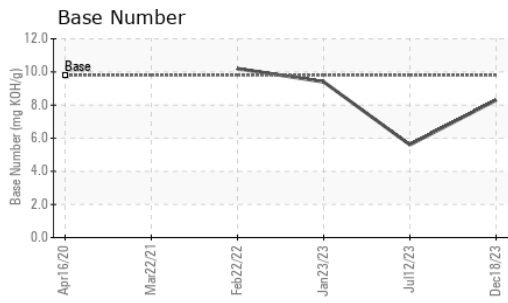
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	3	11	3
Potassium	ppm	ASTM D5185m	>20	3	0	3
Fuel		WC Method	>5	<1.0	▲ 2.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.4	7.4	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	17.1	18.0
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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 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 D5185m		3	6	1
Boron	ppm	ASTM D5185m		15	▲ 96	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		61	61	62
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		880	▲ 467	962
Calcium	ppm	ASTM D5185m		972	1298	1075
Phosphorus	ppm	ASTM D5185m		1009	▲ 688	1051
Zinc	ppm	ASTM D5185m		1126	▲ 820	1301
Sulfur	ppm	ASTM D5185m		2995	3103	3847
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	12.0	13.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	5.6	9.4
Visc @ 100°C	cSt	ASTM D445	15.6	13.7	▲ 8.5	13.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0112913 **Received** : 01 Feb 2024
Lab Number : 06077438 **Diagnosed** : 02 Feb 2024
Unique Number : 10859529 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

VILLAGE OF NORTH RIVERSIDE
 2345 S DESPLAINES
 NORTH RIVERSIDE, IL
 US 60546
 Contact: Service Manager
 vznrdpw@gmail.com
 T:
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)