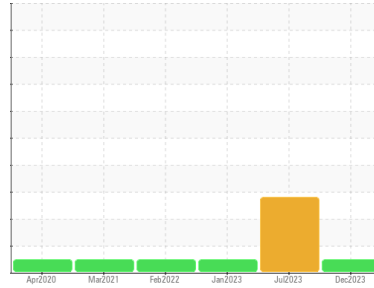


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
PIERCE 806 (S/N 4P1BCAGF1GA015960)

Component
Diesel Engine

Fluid
PETRO CANADA DURON HP 15W40 (34 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

	method	limit/base	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
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	ABNORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	▲ 2.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
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
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
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

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	3	11	3
Sodium	ppm	ASTM D5185m	3	6	1
Potassium	ppm	ASTM D5185m >20	3	0	3

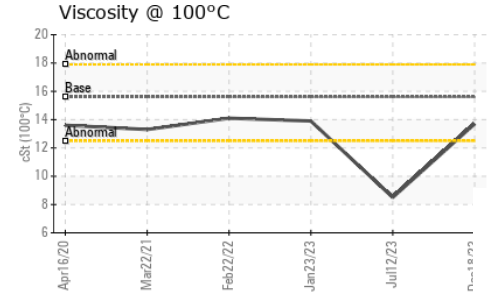
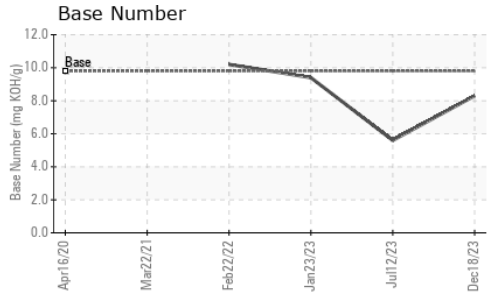
INFRA-RED

	method	limit/base	current	history1	history2
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

FLUID DEGRADATION

	method	limit/base	current	history1	history2
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

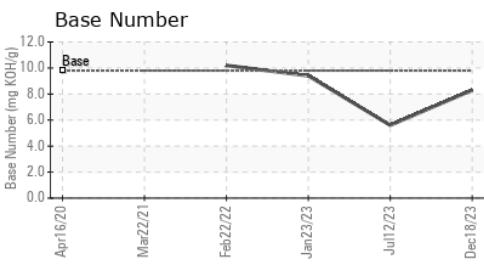
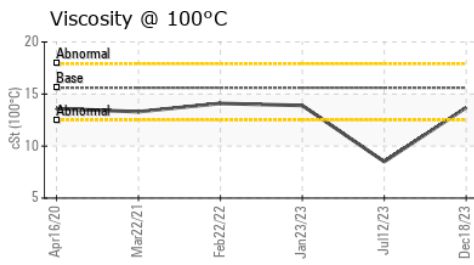
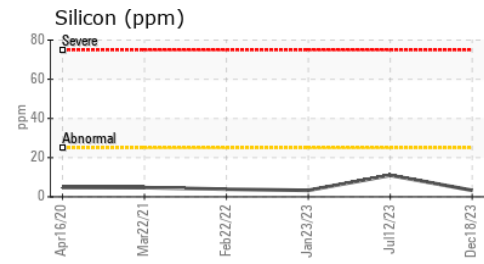
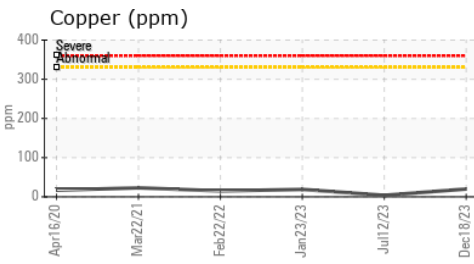
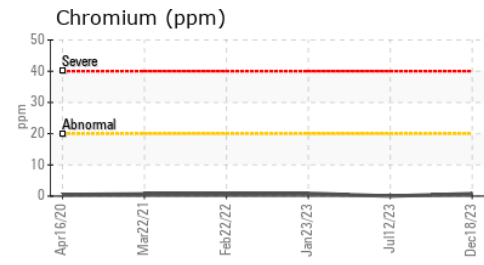
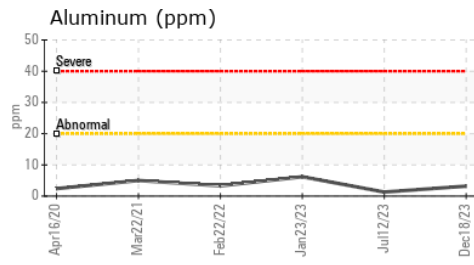
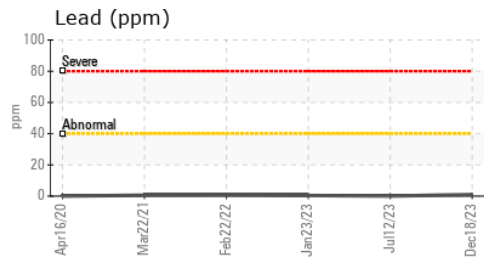
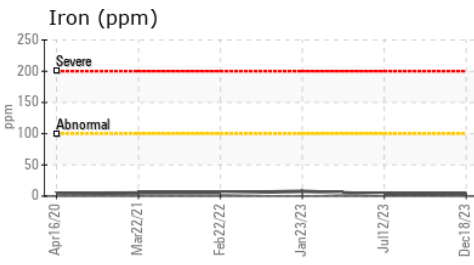
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.6	13.7	▲ 8.5	13.9

GRAPHS



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

VILLAGE OF NORTH RIVERSIDE
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 NORTH RIVERSIDE, IL
 US 60546
 Contact: Service Manager
 vznrdpw@gmail.com
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 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)