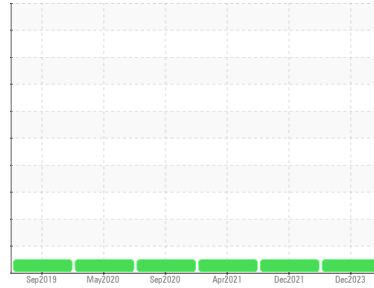


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
20-82

Component
Diesel Engine

Fluid
PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. 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		PCA0056869	PCA0056949	PCA0023978
Sample Date	Client Info		27 Dec 2023	30 Dec 2021	10 Apr 2021
Machine Age	hrs	Client Info	6879	4811	4169
Oil Age	hrs	Client Info	675	642	416
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
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	53	70	54
Chromium	ppm	ASTM D5185m >20	2	2	1
Nickel	ppm	ASTM D5185m >4	<1	<1	2
Titanium	ppm	ASTM D5185m	0	<1	<1
Silver	ppm	ASTM D5185m >3	0	0	<1
Aluminum	ppm	ASTM D5185m >20	4	4	3
Lead	ppm	ASTM D5185m >40	1	1	2
Copper	ppm	ASTM D5185m >330	3	8	19
Tin	ppm	ASTM D5185m >15	<1	1	<1
Antimony	ppm	ASTM D5185m	---	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 1	14	4	7
Barium	ppm	ASTM D5185m 1	0	0	0
Molybdenum	ppm	ASTM D5185m 60	48	63	68
Manganese	ppm	ASTM D5185m 1	<1	<1	<1
Magnesium	ppm	ASTM D5185m 1010	635	859	829
Calcium	ppm	ASTM D5185m 1070	1087	1235	1241
Phosphorus	ppm	ASTM D5185m 1150	857	946	963
Zinc	ppm	ASTM D5185m 1270	1060	1241	1231
Sulfur	ppm	ASTM D5185m 2060	2441	2726	2595

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	4	4	3
Sodium	ppm	ASTM D5185m	0	1	2
Potassium	ppm	ASTM D5185m >20	0	2	3
Fuel	%	ASTM D3524 >5	0.1	<1.0	<1.0

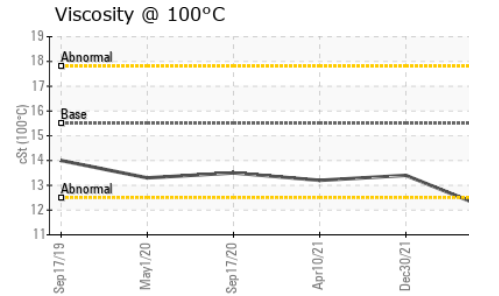
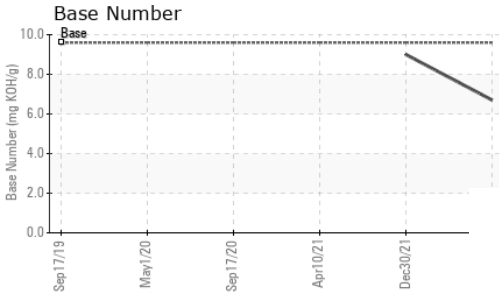
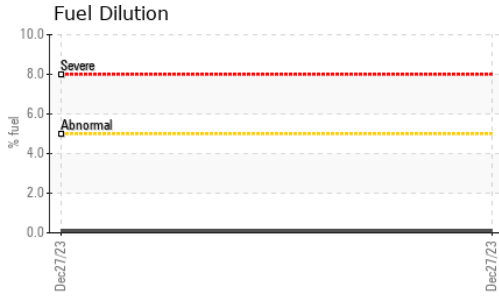
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.5	0.6	0.5
Nitration	Abs/cm	*ASTM D7624 >20	7.8	8.8	8.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	18.3	20.1	20.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	12.9	15.6	15.4
Base Number (BN)	mg KOH/g	ASTM D2896 9.6	6.7	9.0	---

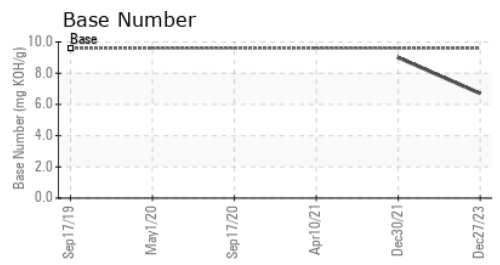
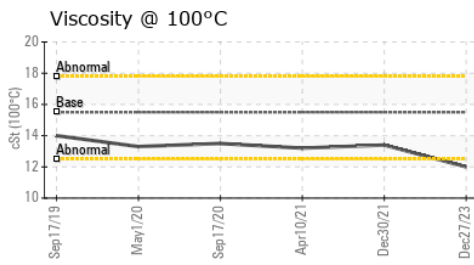
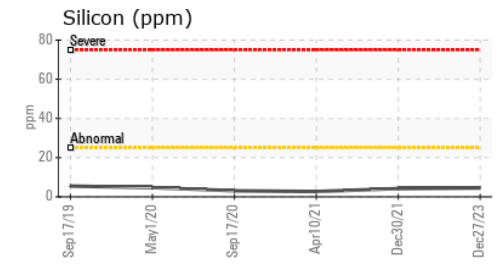
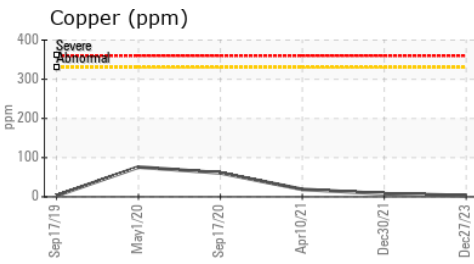
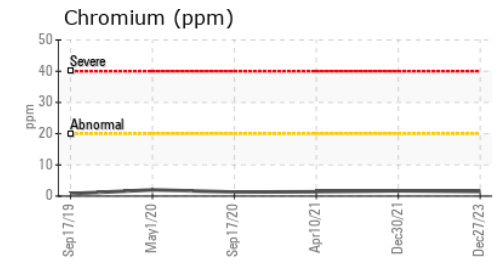
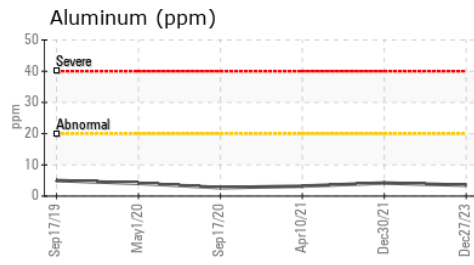
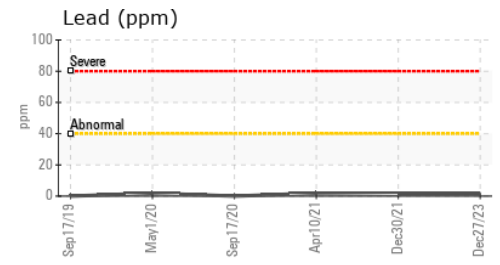
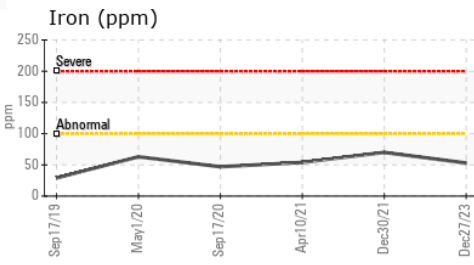
OIL ANALYSIS REPORT



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	15.5	12.0	13.4	13.2

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0056869 **Received** : 25 Jan 2024
Lab Number : **06070227** **Diagnosed** : 29 Jan 2024
Unique Number : 10846904 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

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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)