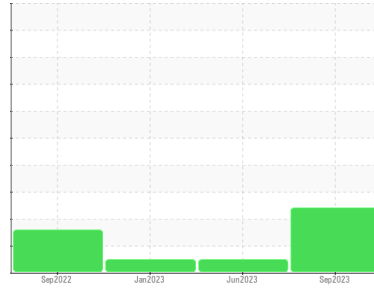


OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

 Machine Id
125268

 Component
Diesel Engine

 Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)
DIAGNOSIS
Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0106287	PCA0097988	PCA0089635
Sample Date	Client Info		27 Sep 2023	02 Jun 2023	19 Jan 2023
Machine Age	mls	Client Info	23759	17861	10738
Oil Age	mls	Client Info	0	0	0
Oil Changed	Client Info		Changed	Changed	N/A
Sample Status			SEVERE	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	20	36	36
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >4	<1	<1	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >3	<1	0	<1
Aluminum	ppm	ASTM D5185m >20	3	5	4
Lead	ppm	ASTM D5185m >40	<1	1	2
Copper	ppm	ASTM D5185m >330	65	356	236
Tin	ppm	ASTM D5185m >15	1	2	2
Vanadium	ppm	ASTM D5185m	<1	<1	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	19	13	21
Barium	ppm	ASTM D5185m 0	<1	0	2
Molybdenum	ppm	ASTM D5185m 50	44	65	53
Manganese	ppm	ASTM D5185m 0	1	2	1
Magnesium	ppm	ASTM D5185m 950	609	971	732
Calcium	ppm	ASTM D5185m 1050	1627	1242	1047
Phosphorus	ppm	ASTM D5185m 995	853	1098	877
Zinc	ppm	ASTM D5185m 1180	1069	1396	1142
Sulfur	ppm	ASTM D5185m 2600	2580	3697	3224

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	8	9	13
Sodium	ppm	ASTM D5185m	1	2	2
Potassium	ppm	ASTM D5185m >20	0	2	2
Fuel	%	ASTM D3524 >5	11.3	<1.0	<1.0

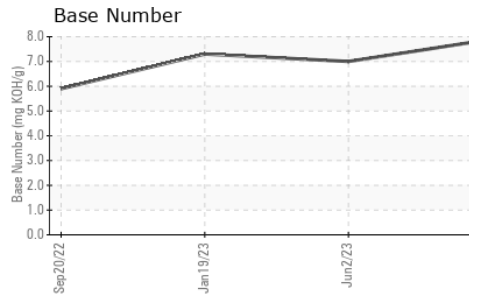
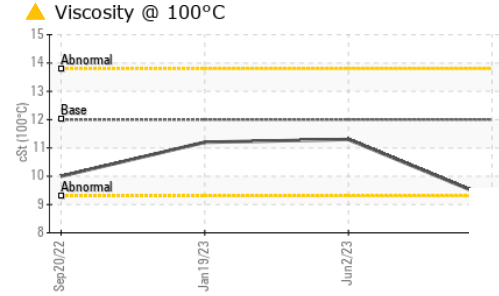
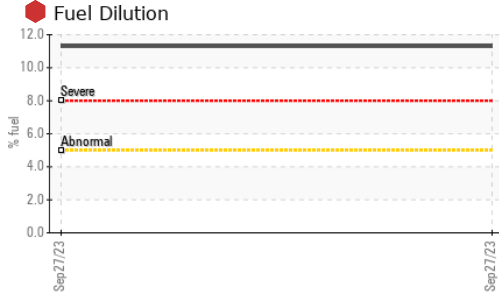
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.6	0.7	0.6
Nitration	Abs/cm	*ASTM D7624 >20	9.5	10.5	10.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.4	21.6	20.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	21.9	19.6	17.8
Base Number (BN)	mg KOH/g	ASTM D2896	7.9	7.0	7.3

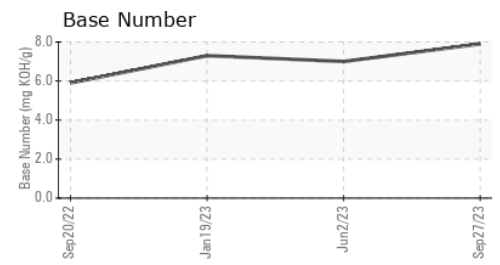
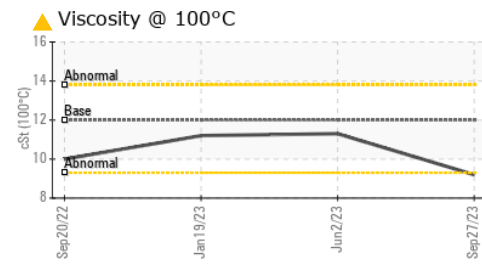
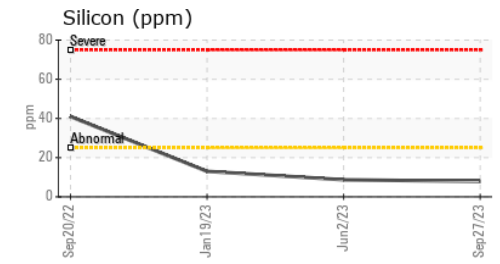
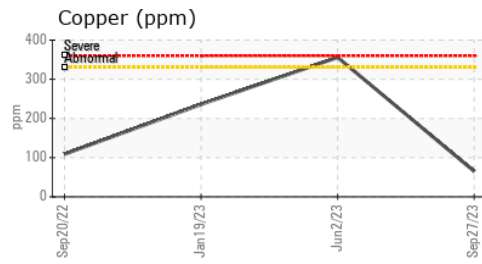
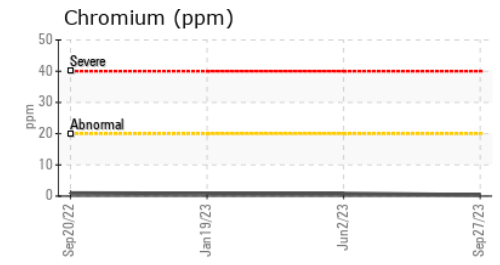
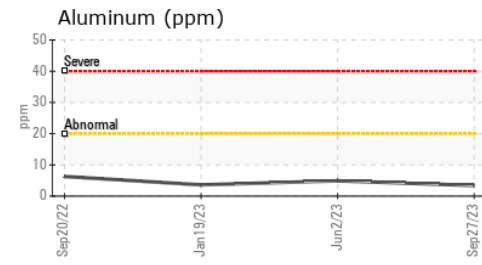
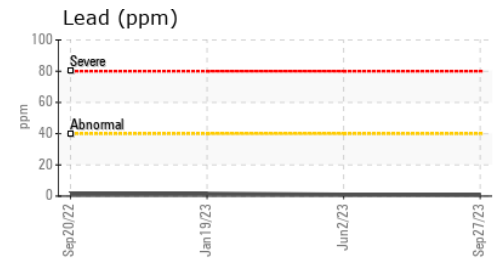
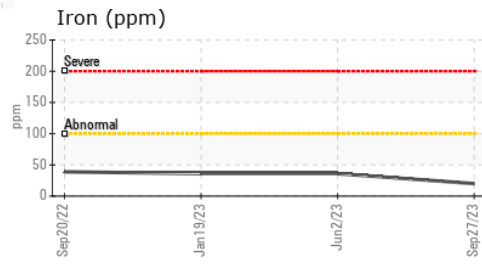
OIL ANALYSIS REPORT



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	▲ 9.2	11.3	11.2

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0106287 **Received** : 17 Oct 2023
Lab Number : 05980811 **Diagnosed** : 18 Oct 2023
Unique Number : 10698106 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

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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)