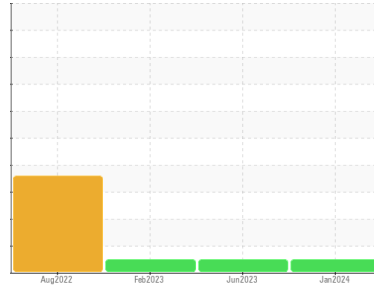


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

 Machine Id
739297

 Component
Diesel Engine

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

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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		PCA0114553	PCA0095777	PCA0093238
Sample Date	Client Info		04 Jan 2024	08 Jun 2023	20 Feb 2023
Machine Age	mls	Client Info	19343	64442	35538
Oil Age	mls	Client Info	19343	64442	35538
Oil Changed	Client Info		Changed	Changed	Not Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<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	61	89	48
Chromium	ppm	ASTM D5185m >20	8	8	4
Nickel	ppm	ASTM D5185m >4	<1	2	<1
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >20	140	118	60
Lead	ppm	ASTM D5185m >40	0	0	2
Copper	ppm	ASTM D5185m >330	100	228	196
Tin	ppm	ASTM D5185m >15	2	5	4
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	7	26	29
Barium	ppm	ASTM D5185m 0	0	<1	0
Molybdenum	ppm	ASTM D5185m 50	58	51	45
Manganese	ppm	ASTM D5185m 0	1	4	3
Magnesium	ppm	ASTM D5185m 950	902	588	593
Calcium	ppm	ASTM D5185m 1050	1176	1743	1894
Phosphorus	ppm	ASTM D5185m 995	908	761	742
Zinc	ppm	ASTM D5185m 1180	1196	968	953
Sulfur	ppm	ASTM D5185m 2600	2241	2189	1942

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	8	9	6
Sodium	ppm	ASTM D5185m	8	5	4
Potassium	ppm	ASTM D5185m >20	293	265	145

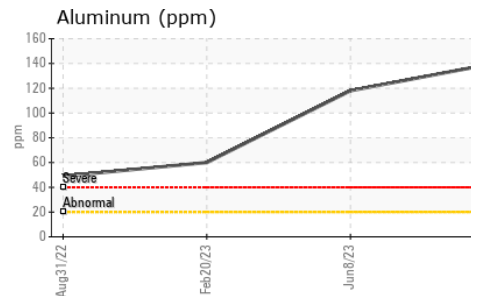
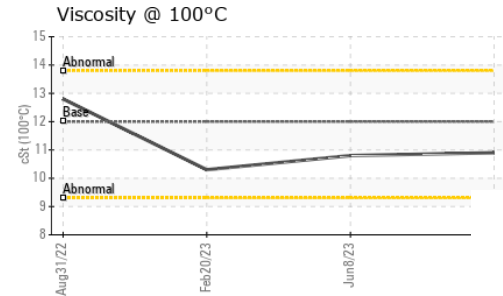
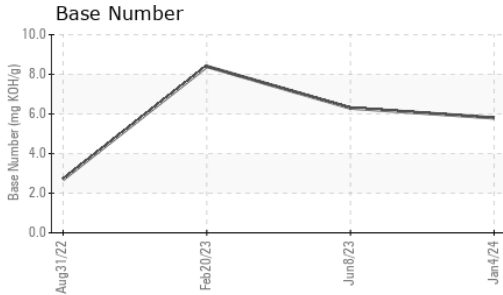
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.2	1.3	0.8
Nitration	Abs/cm	*ASTM D7624 >20	10.7	12.4	9.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.9	25.6	22.9

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	22.0	28.0	22.5
Base Number (BN)	mg KOH/g	ASTM D2896	5.8	6.3	8.4

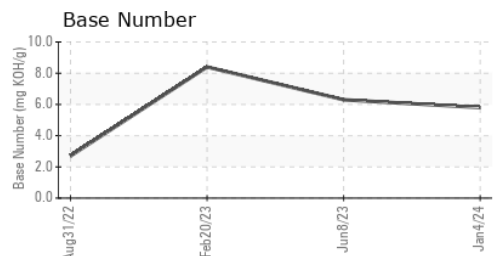
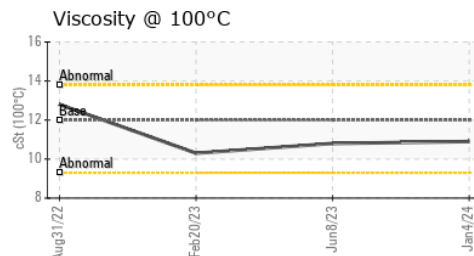
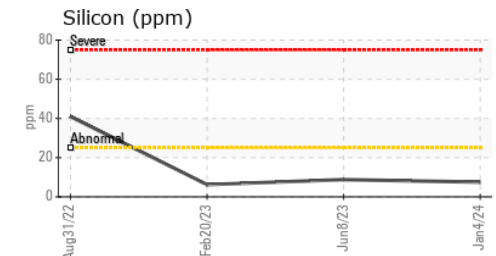
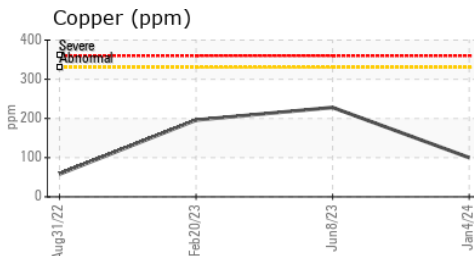
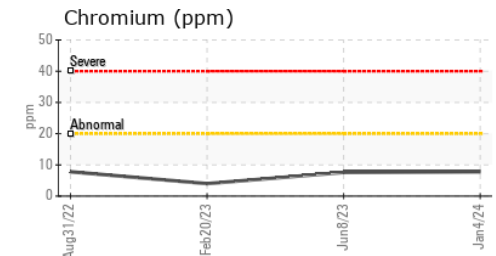
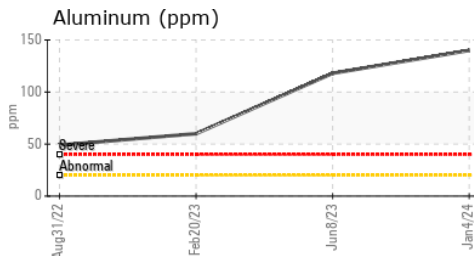
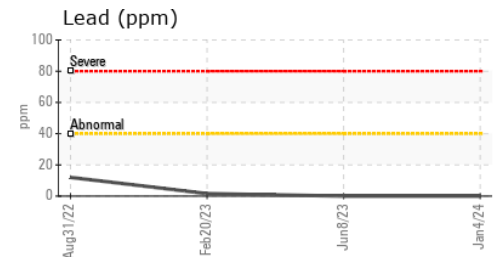
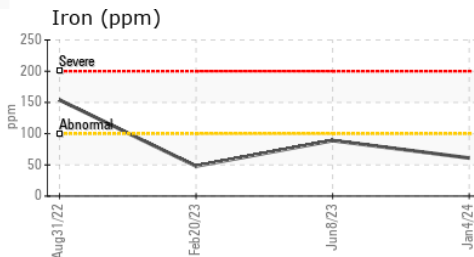
OIL ANALYSIS REPORT



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	12.00	10.9	10.8

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0114553 **Recieved** : 16 Jan 2024
Lab Number : 06060930 **Diagnosed** : 16 Jan 2024
Unique Number : 10832312 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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)

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