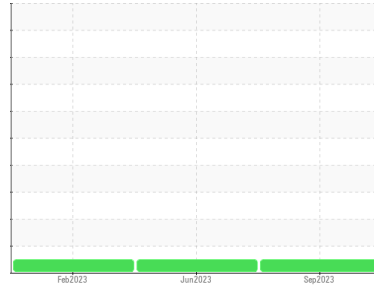


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
738205
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

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

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		PCA0105306	PCA0095804	PCA0090116
Sample Date	Client Info		11 Sep 2023	05 Jun 2023	14 Feb 2023
Machine Age	mls	Client Info	39171	95518	0
Oil Age	mls	Client Info	39171	95518	0
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	38	51	89
Chromium	ppm	ASTM D5185m >20	2	2	4
Nickel	ppm	ASTM D5185m >4	<1	2	3
Titanium	ppm	ASTM D5185m	2	5	3
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >20	11	13	32
Lead	ppm	ASTM D5185m >40	0	0	3
Copper	ppm	ASTM D5185m >330	29	42	199
Tin	ppm	ASTM D5185m >15	1	3	12
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	4	7	23
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	66	56	45
Manganese	ppm	ASTM D5185m 0	<1	1	3
Magnesium	ppm	ASTM D5185m 950	947	822	514
Calcium	ppm	ASTM D5185m 1050	1285	1317	1747
Phosphorus	ppm	ASTM D5185m 995	1027	945	672
Zinc	ppm	ASTM D5185m 1180	1300	1177	861
Sulfur	ppm	ASTM D5185m 2600	2742	2503	1820

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	5	9
Sodium	ppm	ASTM D5185m	<1	1	6
Potassium	ppm	ASTM D5185m >20	23	35	98

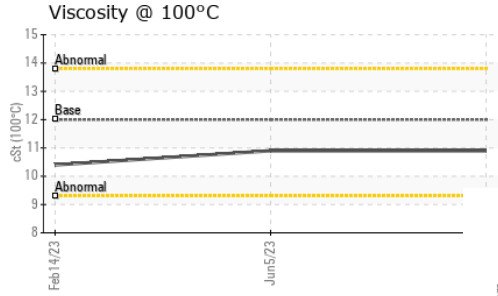
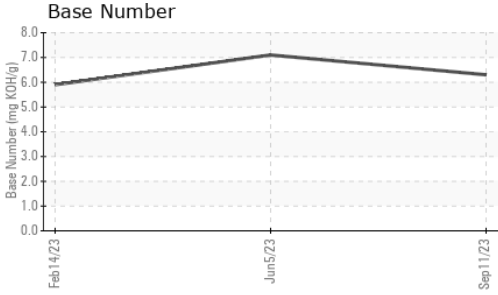
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1	1	1.3
Nitration	Abs/cm	*ASTM D7624 >20	9.5	10.7	13.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.7	22.9	25.6

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.0	19.8	28.1
Base Number (BN)	mg KOH/g	ASTM D2896	6.3	7.1	5.9

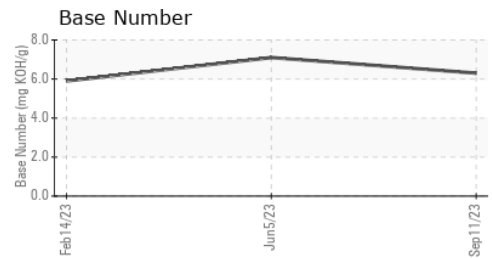
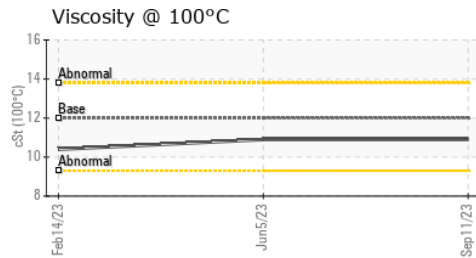
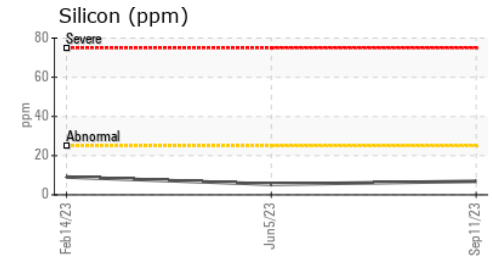
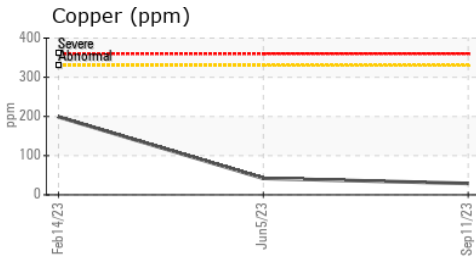
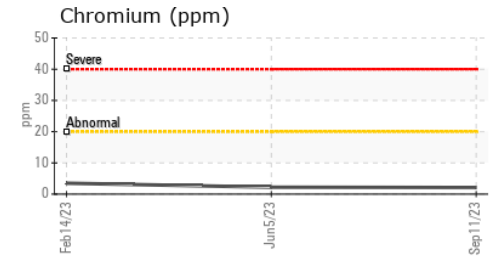
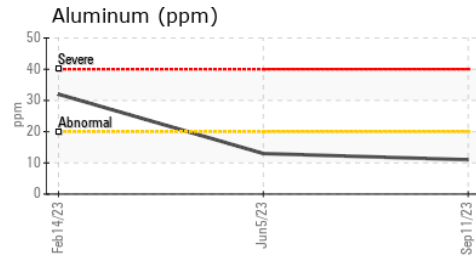
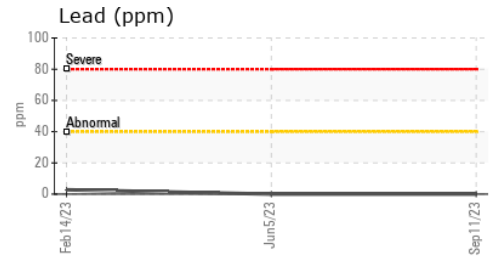
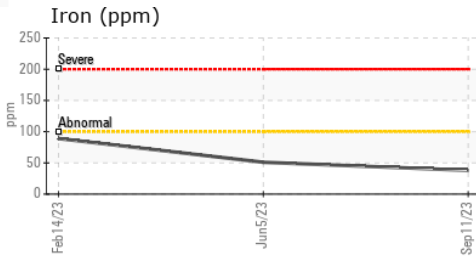
OIL ANALYSIS REPORT



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	10.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0105306 **Received** : 19 Sep 2023
Lab Number : 05955145 **Diagnosed** : 20 Sep 2023
Unique Number : 10656358 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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 2196 BENNETT ROAD
 PHILADELPHIA, PA
 US 19116
 Contact: ROSTY VITER
 rviter@millertransgroup.com
 T: (215)552-9832
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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)