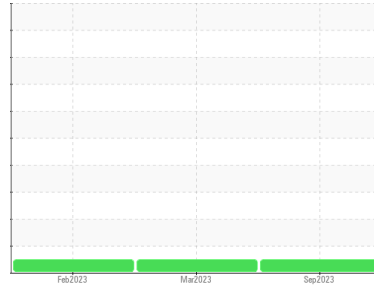


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
738207
 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

All component wear rates are normal.

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	PCA0105303	PCA05806108	PCA0090139
Sample Date	Client Info	08 Sep 2023	29 Mar 2023	08 Feb 2023
Machine Age	mls Client Info	174895	112913	96634
Oil Age	mls Client Info	174895	112913	96634
Oil Changed	Client Info	Not 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
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	36	56	37
Chromium	ppm ASTM D5185m >20	2	3	2
Nickel	ppm ASTM D5185m >4	<1	<1	0
Titanium	ppm ASTM D5185m	3	4	4
Silver	ppm ASTM D5185m >3	0	<1	0
Aluminum	ppm ASTM D5185m >20	15	30	23
Lead	ppm ASTM D5185m >40	0	0	<1
Copper	ppm ASTM D5185m >330	32	72	68
Tin	ppm ASTM D5185m >15	2	2	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 2	4	7	8
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 50	66	60	57
Manganese	ppm ASTM D5185m 0	<1	1	2
Magnesium	ppm ASTM D5185m 950	948	830	858
Calcium	ppm ASTM D5185m 1050	1313	1426	1562
Phosphorus	ppm ASTM D5185m 995	1039	946	995
Zinc	ppm ASTM D5185m 1180	1337	1232	1307
Sulfur	ppm ASTM D5185m 2600	2910	2776	2435

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	6	9	7
Sodium	ppm ASTM D5185m	<1	3	1
Potassium	ppm ASTM D5185m >20	30	61	51

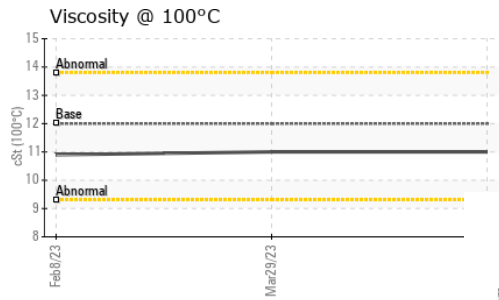
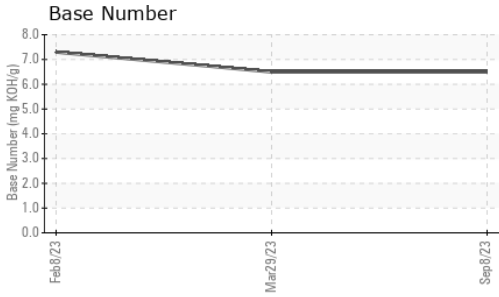
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	1.3	1.3	1
Nitration	Abs/cm *ASTM D7624 >20	9.6	11.0	9.9
Sulfation	Abs/.1mm *ASTM D7415 >30	22.0	23.7	21.9

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	18.0	21.5	19.0
Base Number (BN)	mg KOH/g ASTM D2896	6.5	6.5	7.3

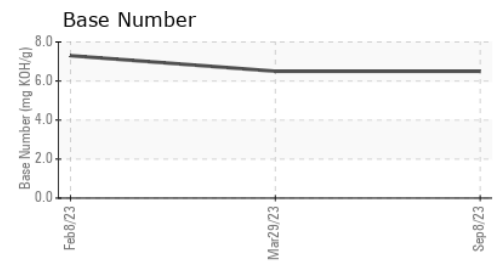
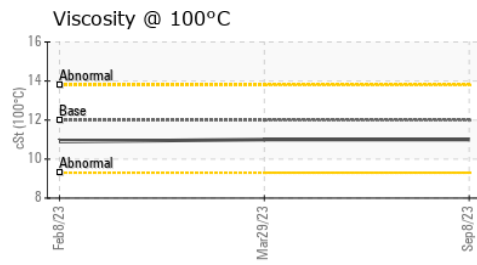
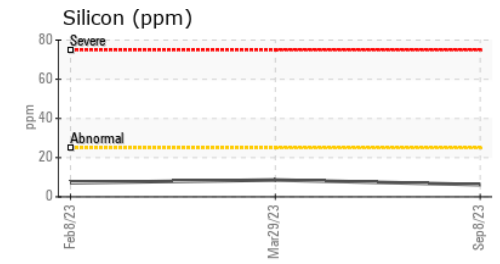
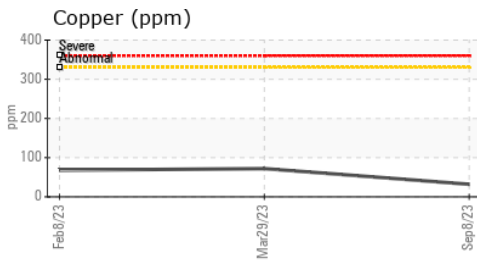
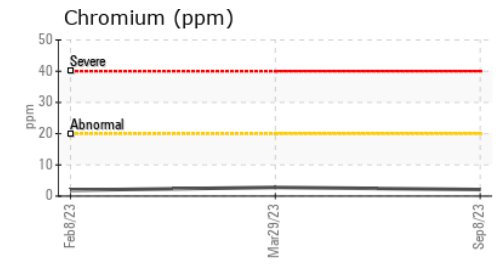
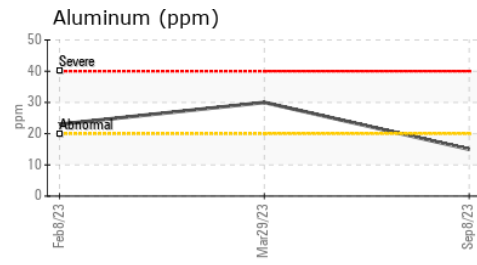
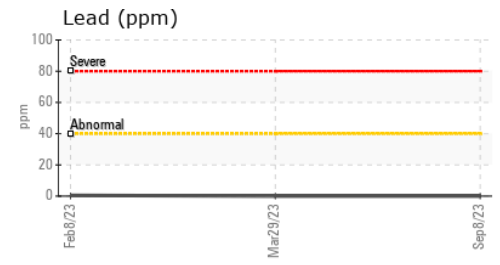
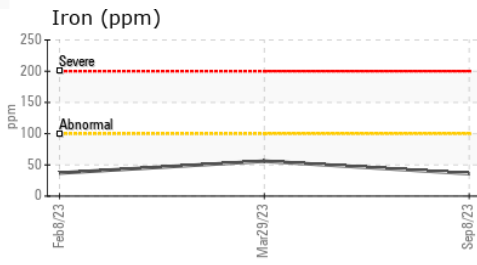
OIL ANALYSIS REPORT



PARAMETER	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

PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.0	10.9

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0105303 **Received** : 19 Sep 2023
Lab Number : 05955139 **Diagnosed** : 20 Sep 2023
Unique Number : 10656352 **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
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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)