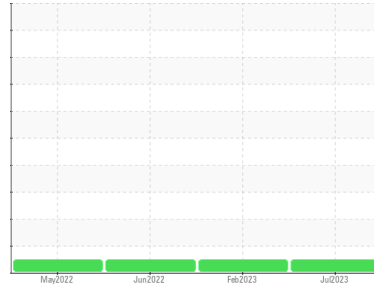


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

 Machine Id
624578

 Component
Diesel Engine

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0103024	PCA0092368	PCA0075065
Sample Date	Client Info		28 Jul 2023	23 Feb 2023	13 Jun 2022
Machine Age	mls	Client Info	0	92721	38213
Oil Age	mls	Client Info	0	0	0
Oil Changed	Client Info		N/A	Not Changd	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	93	71	66
Chromium	ppm	ASTM D5185m >20	5	4	4
Nickel	ppm	ASTM D5185m >4	<1	<1	<1
Titanium	ppm	ASTM D5185m	<1	0	<1
Silver	ppm	ASTM D5185m >3	<1	0	<1
Aluminum	ppm	ASTM D5185m >20	47	40	46
Lead	ppm	ASTM D5185m >40	1	1	0
Copper	ppm	ASTM D5185m >330	112	116	306
Tin	ppm	ASTM D5185m >15	5	4	7
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	6	7	30
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	71	69	40
Manganese	ppm	ASTM D5185m 0	3	3	4
Magnesium	ppm	ASTM D5185m 950	866	796	460
Calcium	ppm	ASTM D5185m 1050	1395	1444	1760
Phosphorus	ppm	ASTM D5185m 995	917	843	743
Zinc	ppm	ASTM D5185m 1180	1220	1115	957
Sulfur	ppm	ASTM D5185m 2600	2410	2121	1987

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	7	7	8
Sodium	ppm	ASTM D5185m	6	3	5
Potassium	ppm	ASTM D5185m >20	112	98	123

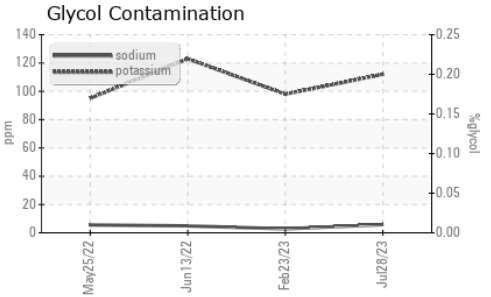
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.7	1.2	0.7
Nitration	Abs/cm	*ASTM D7624 >20	15.5	12.1	11.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	27.7	24.7	24.1

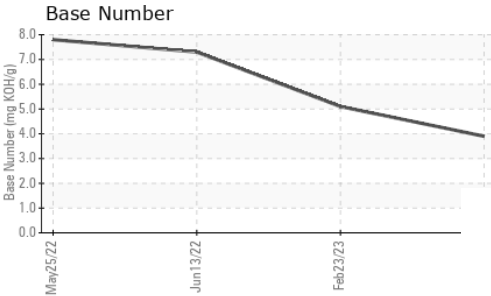
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	27.8	23.1	24.7
Base Number (BN)	mg KOH/g	ASTM D2896	3.9	5.1	7.3

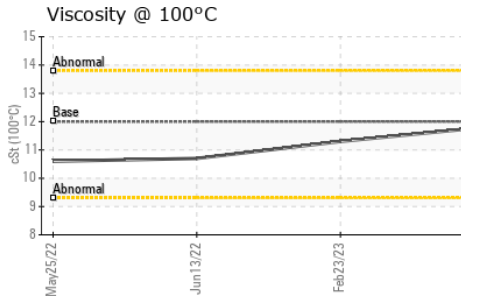
OIL ANALYSIS REPORT



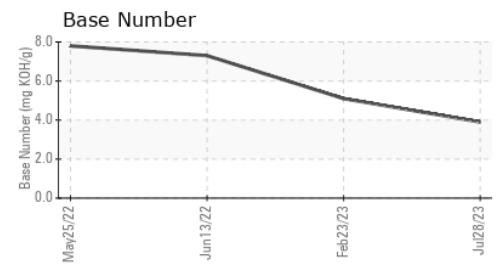
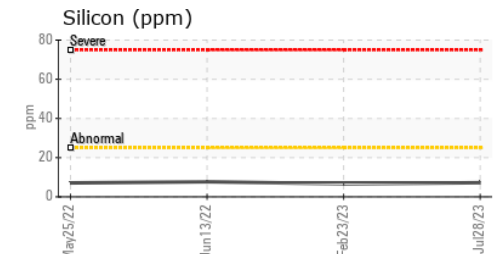
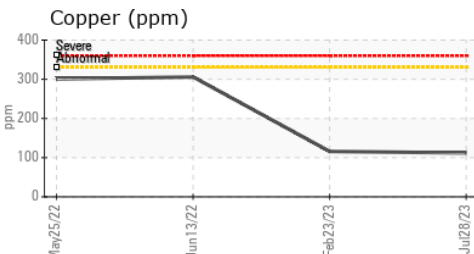
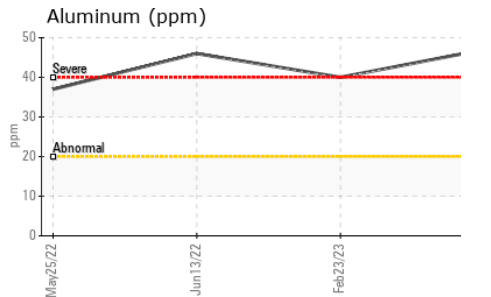
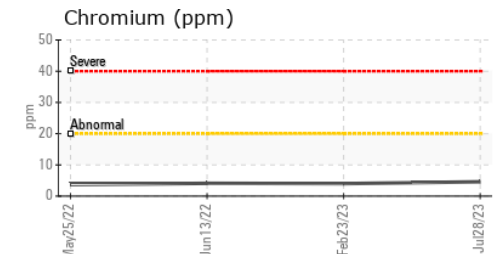
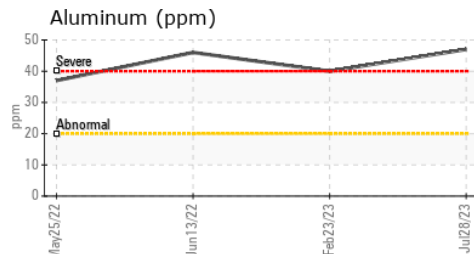
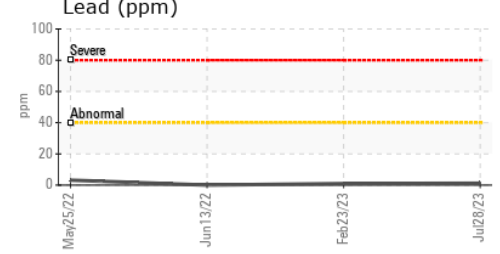
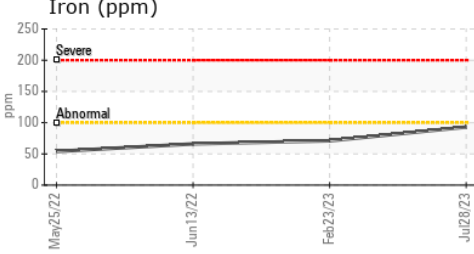
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	12.00	11.8	11.3



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0103024 **Received** : 16 Aug 2023
Lab Number : 05925770 **Diagnosed** : 17 Aug 2023
Unique Number : 10605717 **Diagnostician** : Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

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 US 07604
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 mlongette@millertransgroup.com
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 F: (201)528-7053

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)