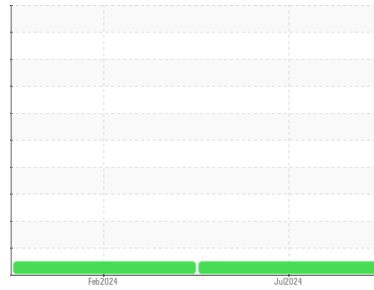


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
BM-203
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (10 GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. 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. No other contaminants were detected in the oil.

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		PCA0122169	PCA0110805	---
Sample Date	Client Info		11 Jul 2024	14 Feb 2024	---
Machine Age	mls	Client Info	52008	25793	---
Oil Age	mls	Client Info	26215	25793	---
Oil Changed		Client Info	Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	62	54	---
Chromium	ppm	ASTM D5185m >20	<1	0	---
Nickel	ppm	ASTM D5185m >4	<1	0	---
Titanium	ppm	ASTM D5185m	<1	0	---
Silver	ppm	ASTM D5185m >3	1	0	---
Aluminum	ppm	ASTM D5185m >20	33	35	---
Lead	ppm	ASTM D5185m >40	0	0	---
Copper	ppm	ASTM D5185m >330	8	14	---
Tin	ppm	ASTM D5185m >15	1	1	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	3	22	---
Barium	ppm	ASTM D5185m 0	<1	0	---
Molybdenum	ppm	ASTM D5185m 50	79	12	---
Manganese	ppm	ASTM D5185m 0	1	2	---
Magnesium	ppm	ASTM D5185m 950	1235	795	---
Calcium	ppm	ASTM D5185m 1050	1518	1311	---
Phosphorus	ppm	ASTM D5185m 995	1219	806	---
Zinc	ppm	ASTM D5185m 1180	1625	917	---
Sulfur	ppm	ASTM D5185m 2600	3459	2893	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	18	16	---
Sodium	ppm	ASTM D5185m	0	4	---
Potassium	ppm	ASTM D5185m >20	93	93	---

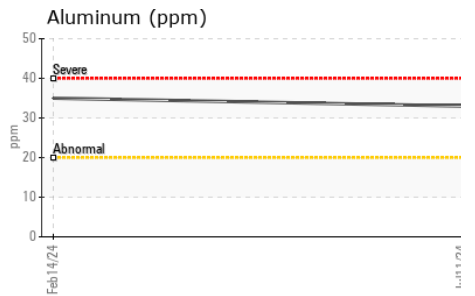
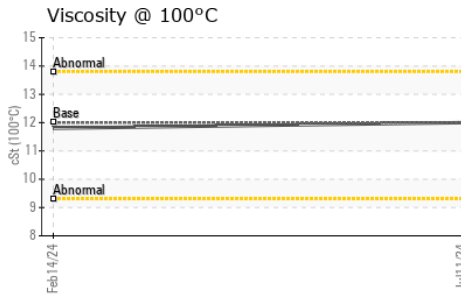
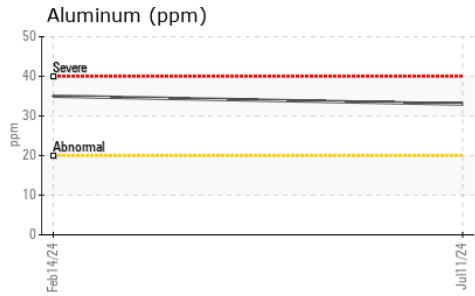
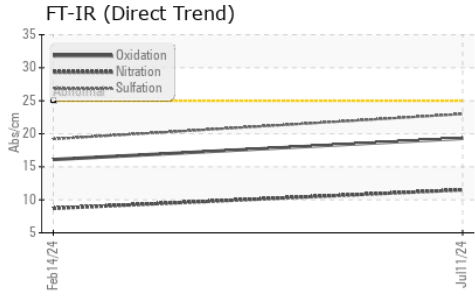
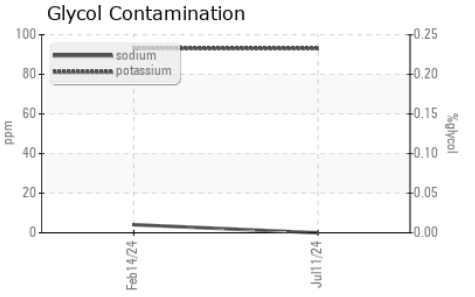
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.7	0.5	---
Nitration	Abs/cm	*ASTM D7624 >20	11.5	8.7	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.0	19.2	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	19.3	16.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	6.6	4.9	---

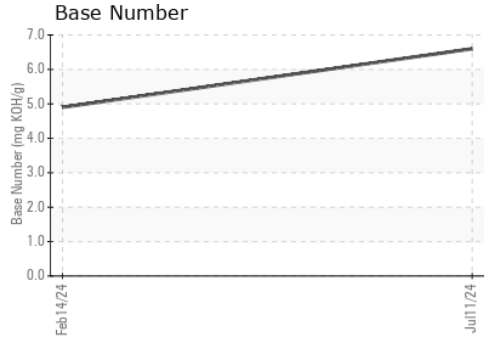
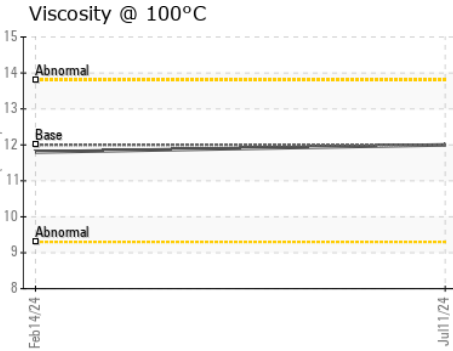
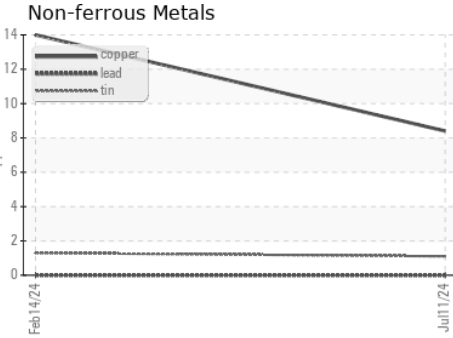
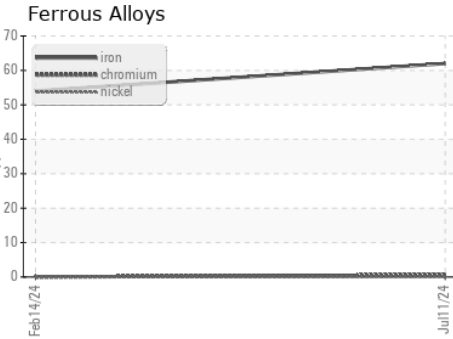
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	12.0	11.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0122169 **Received** : 15 Jul 2024
Lab Number : 06235574 **Tested** : 15 Jul 2024
Unique Number : 11124408 **Diagnosed** : 16 Jul 2024 - Don Baldrige
Test Package : FLEET

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 US 28273
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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)