

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
BM-206
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (10 GAL)

DIAGNOSIS

Recommendation
 Resample at the next service interval to monitor.

Wear
 Metal levels are typical for a components first oil change.

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		PCA0117742	---	---
Sample Date	Client Info		16 Apr 2024	---	---
Machine Age	mls Client Info		18075	---	---
Oil Age	mls Client Info		18075	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100	78	---	---
Chromium	ppm ASTM D5185m	>20	<1	---	---
Nickel	ppm ASTM D5185m	>4	0	---	---
Titanium	ppm ASTM D5185m		0	---	---
Silver	ppm ASTM D5185m	>3	<1	---	---
Aluminum	ppm ASTM D5185m	>20	18	---	---
Lead	ppm ASTM D5185m	>40	0	---	---
Copper	ppm ASTM D5185m	>330	18	---	---
Tin	ppm ASTM D5185m	>15	1	---	---
Vanadium	ppm ASTM D5185m		0	---	---
Cadmium	ppm ASTM D5185m		0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2	24	---	---
Barium	ppm ASTM D5185m	0	2	---	---
Molybdenum	ppm ASTM D5185m	50	13	---	---
Manganese	ppm ASTM D5185m	0	2	---	---
Magnesium	ppm ASTM D5185m	950	820	---	---
Calcium	ppm ASTM D5185m	1050	1391	---	---
Phosphorus	ppm ASTM D5185m	995	830	---	---
Zinc	ppm ASTM D5185m	1180	977	---	---
Sulfur	ppm ASTM D5185m	2600	3323	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	26	---	---
Sodium	ppm ASTM D5185m		2	---	---
Potassium	ppm ASTM D5185m	>20	59	---	---

INFRA-RED

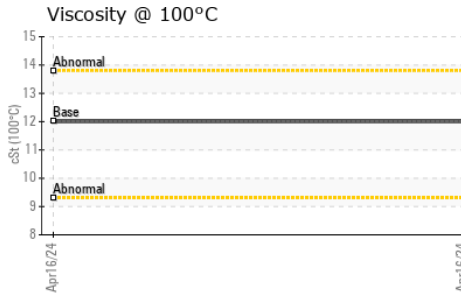
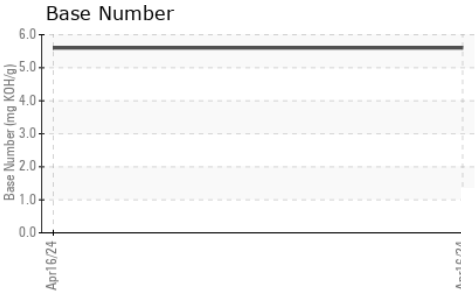
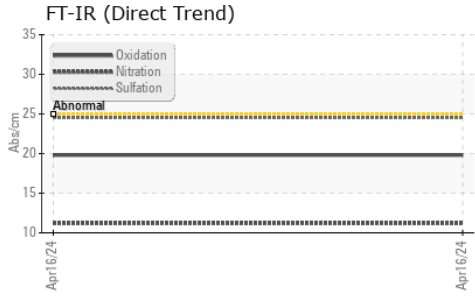
	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	0.5	---	---
Nitration	Abs/cm *ASTM D7624	>20	11.2	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	24.5	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	19.8	---	---
Base Number (BN)	mg KOH/g ASTM D2896		5.6	---	---



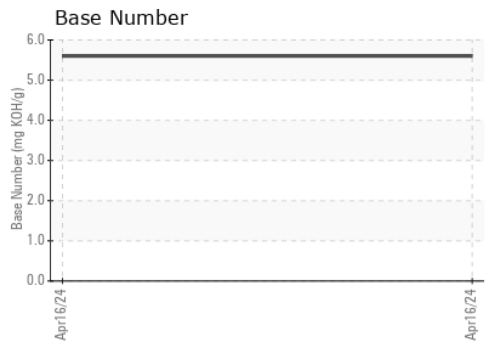
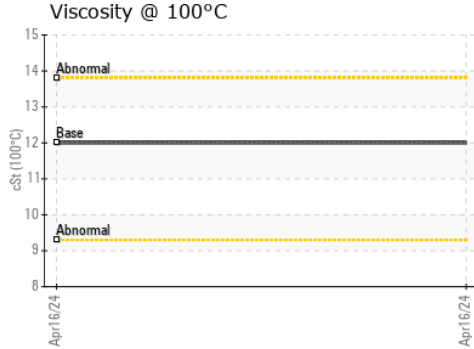
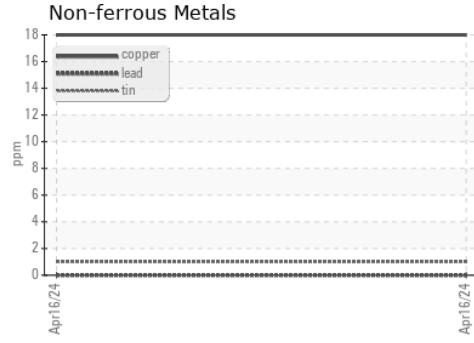
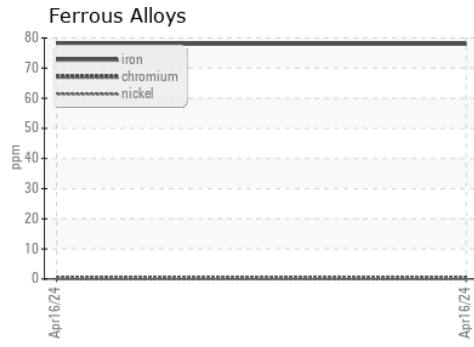
OIL ANALYSIS REPORT



PARAMETER	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	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0117742
Lab Number : 06158842
Unique Number : 10994265
Test Package : FLEET

Received : 24 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 25 Apr 2024 - Wes Davis

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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)