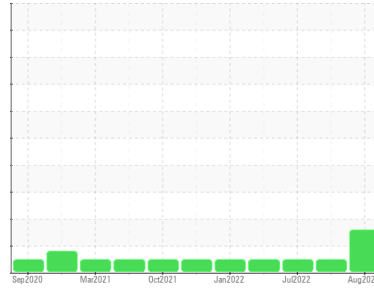


PROBLEM SUMMARY

Sample Rating Trend

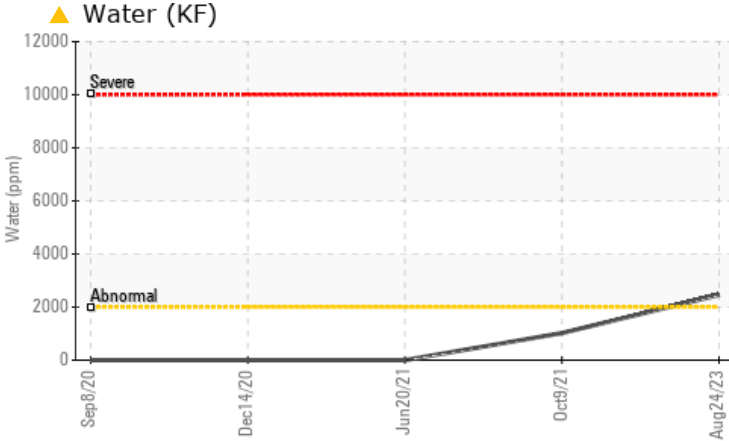


WATER



Machine Id
2026857
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (35 QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	NORMAL
Water	%	ASTM D6304	>0.2	▲ 0.246	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2460	---	---
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	NEG	NEG

Customer Id: PERGEODE
 Sample No.: PCA0104340
 Lab Number: 06031973
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

21 May 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



25 Jul 2022 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



23 Apr 2022 Diag: Don Baldrige

NORMAL



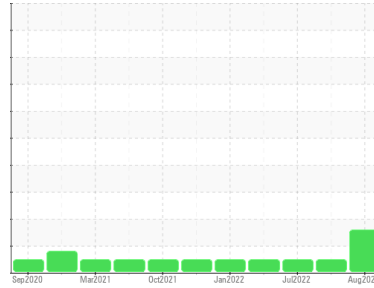
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
2026857
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (35 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

There is a light concentration of water present 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		PCA0104340	PCA0099471	PCA0078844
Sample Date	Client Info		24 Aug 2023	21 May 2023	25 Jul 2022
Machine Age	mls	Client Info	0	212675	171615
Oil Age	mls	Client Info	20000	21881	20000
Oil Changed	Client Info		Not Chngd	Changed	N/A
Sample Status			ABNORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<1.0	<1.0	<1.0

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	26	24	19
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >2	<1	<1	2
Titanium	ppm	ASTM D5185m	<1	6	5
Silver	ppm	ASTM D5185m >2	0	0	<1
Aluminum	ppm	ASTM D5185m >25	2	2	4
Lead	ppm	ASTM D5185m >40	1	<1	2
Copper	ppm	ASTM D5185m >330	7	12	10
Tin	ppm	ASTM D5185m >15	<1	0	2
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	8	5	5
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	53	53	52
Manganese	ppm	ASTM D5185m 0	<1	<1	<1
Magnesium	ppm	ASTM D5185m 950	864	847	851
Calcium	ppm	ASTM D5185m 1050	1023	1154	1210
Phosphorus	ppm	ASTM D5185m 995	1021	980	947
Zinc	ppm	ASTM D5185m 1180	1213	1214	1165
Sulfur	ppm	ASTM D5185m 2600	3991	3024	3684

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	8	3	4
Sodium	ppm	ASTM D5185m	1	1	2
Potassium	ppm	ASTM D5185m >20	1	4	4
Water	%	ASTM D6304 >0.2	▲ 0.246	---	---
ppm Water	ppm	ASTM D6304 >2000	▲ 2460	---	---
Glycol	%	*ASTM D2982	NEG	NEG	NEG

INFRA-RED

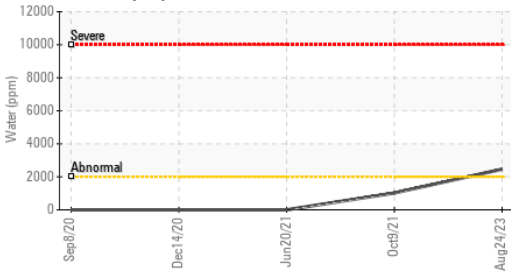
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.4	0.4	0.4
Nitration	Abs/cm	*ASTM D7624 >20	8.9	9.5	9.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.1	19.4	20.5

FLUID DEGRADATION

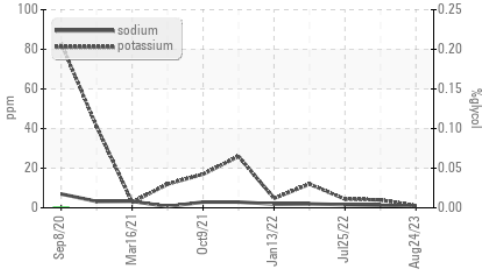
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.1	15.4	15.8
Base Number (BN)	mg KOH/g	ASTM D2896	7.8	7.5	8.4

OIL ANALYSIS REPORT

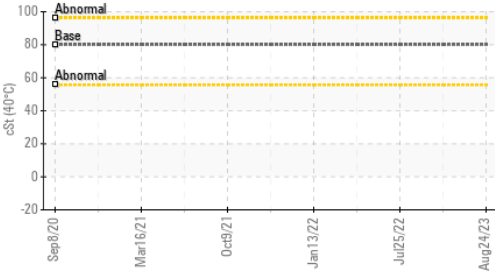
▲ Water (KF)



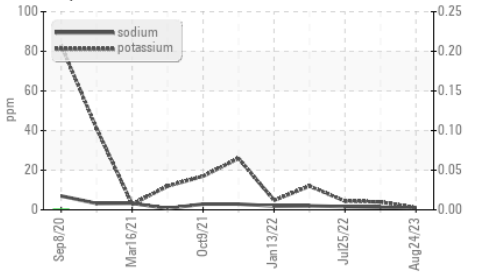
Glycol Contamination



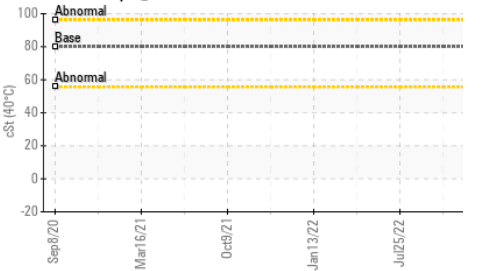
Viscosity @ 40°C



Glycol Contamination



Viscosity @ 40°C

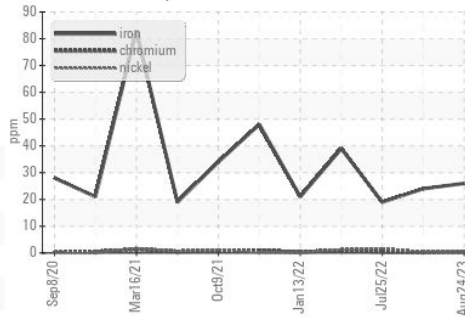


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

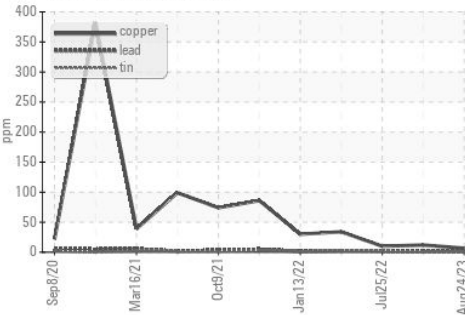
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.17	11.2

GRAPHS

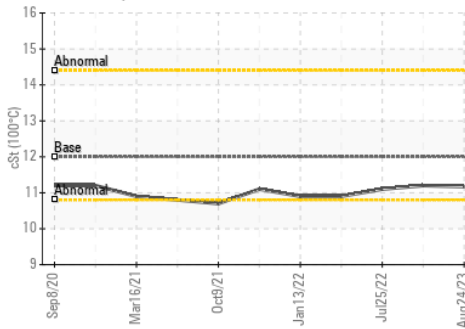
Ferrous Alloys



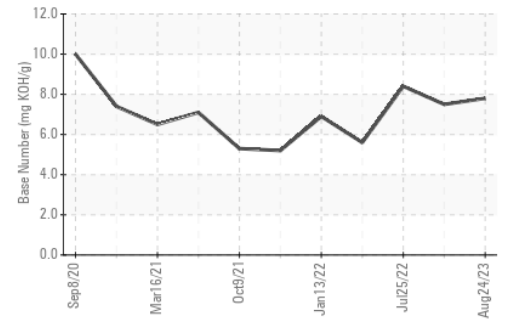
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0104340 **Received** : 11 Dec 2023
Lab Number : 06031973 **Diagnosed** : 19 Dec 2023
Unique Number : 10781764 **Diagnostician** : Jonathan Hester

Test Package : FLEET (Additional Tests: Glycol, KF, KV40)

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)

PERDUE FARMS - GEORGETOWN
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 US 19947

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 Robert.Lockwood@Perdue.com

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