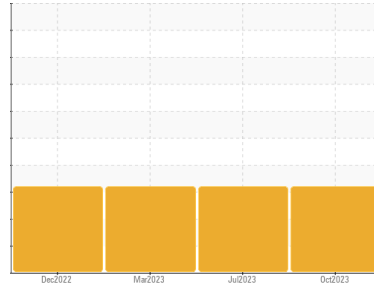


PROBLEM SUMMARY

Sample Rating Trend

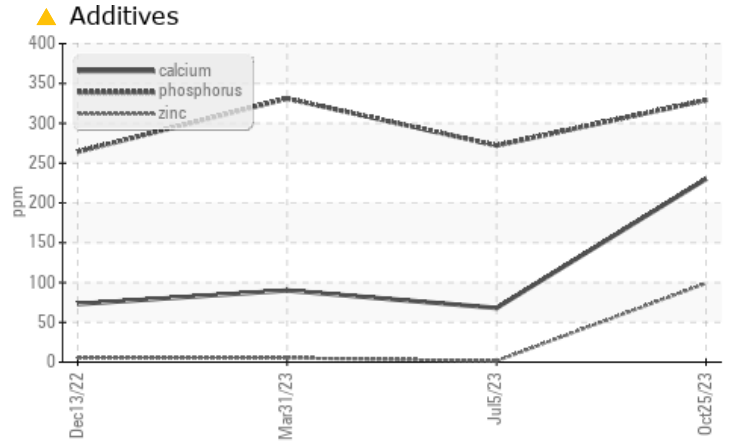
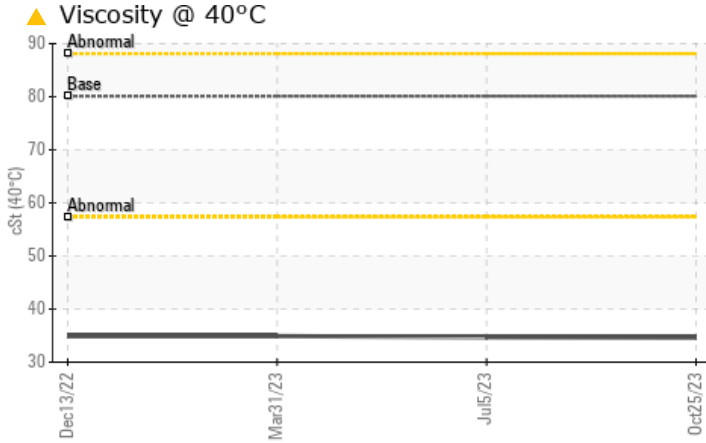


VISCOSITY



Machine Id
DT852
 Component
Transmission (Auto)
 Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	ATTENTION	ATTENTION
Boron	ppm	ASTM D5185m	2	▲ 105	▲ 111	▲ 130
Molybdenum	ppm	ASTM D5185m	50	▲ 5	▲ 1	▲ <1
Magnesium	ppm	ASTM D5185m	950	▲ 13	▲ 0	▲ 0
Calcium	ppm	ASTM D5185m	1050	▲ 230	▲ 68	▲ 90
Phosphorus	ppm	ASTM D5185m	995	▲ 329	▲ 272	▲ 331
Zinc	ppm	ASTM D5185m	1180	▲ 99	▲ 1	▲ 5
Sulfur	ppm	ASTM D5185m	2600	▲ 1672	▲ 1395	▲ 1344
Visc @ 40°C	cSt	ASTM D445	80.1	▲ 34.6	▲ 34.7	▲ 34.9

Customer Id: NWWVAR
 Sample No.: PCA0101814
 Lab Number: 06015552
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Sean Felton +1 919-379-4092
sfelton@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

05 Jul 2023 Diag: Sean Felton

VISCOSITY



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The fluid viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

view report



31 Mar 2023 Diag: Don Baldrige

VISCOSITY



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The fluid viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

view report



13 Dec 2022 Diag: Don Baldrige

VISCOSITY



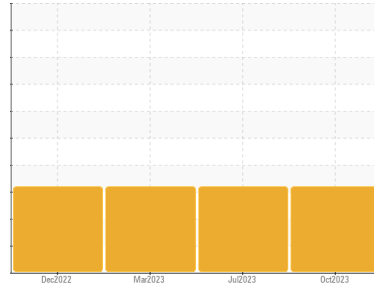
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The fluid viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
DT852
 Component
Transmission (Auto)
 Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

The fluid viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0101814	PCA0095264	PCA0095280
Sample Date	Client Info	25 Oct 2023	05 Jul 2023	31 Mar 2023
Machine Age	mls Client Info	25000	25000	25000
Oil Age	mls Client Info	25000	25000	25000
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ATTENTION	ATTENTION	ATTENTION

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >160	44	71	68
Chromium	ppm ASTM D5185m >5	0	<1	0
Nickel	ppm ASTM D5185m >5	<1	<1	0
Titanium	ppm ASTM D5185m	0	<1	0
Silver	ppm ASTM D5185m >5	0	0	0
Aluminum	ppm ASTM D5185m >50	13	15	16
Lead	ppm ASTM D5185m >50	18	9	15
Copper	ppm ASTM D5185m >225	12	11	12
Tin	ppm ASTM D5185m >10	1	2	2
Vanadium	ppm ASTM D5185m	<1	<1	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	▲ 105	▲ 111	▲ 130
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 50	▲ 5	▲ 1	▲ <1
Manganese	ppm ASTM D5185m 0	2	2	2
Magnesium	ppm ASTM D5185m 950	▲ 13	▲ 0	▲ 0
Calcium	ppm ASTM D5185m 1050	▲ 230	▲ 68	▲ 90
Phosphorus	ppm ASTM D5185m 995	▲ 329	▲ 272	▲ 331
Zinc	ppm ASTM D5185m 1180	▲ 99	▲ 1	▲ 5
Sulfur	ppm ASTM D5185m 2600	▲ 1672	▲ 1395	▲ 1344

CONTAMINANTS

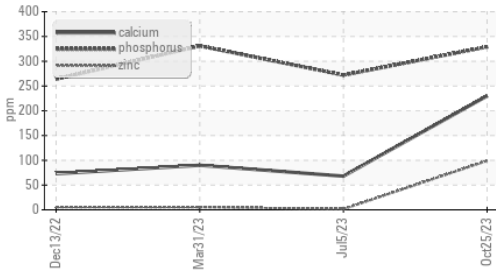
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	4	4	4
Sodium	ppm ASTM D5185m	4	6	5
Potassium	ppm ASTM D5185m >20	<1	2	4

VISUAL

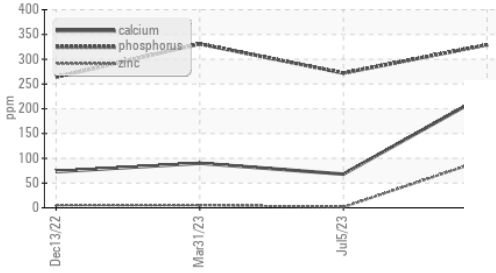
method	limit/base	current	history1	history2
White Metal	scalar *Visual NONE	NONE	NONE	NONE
Yellow Metal	scalar *Visual NONE	NONE	NONE	NONE
Precipitate	scalar *Visual NONE	NONE	NONE	NONE
Silt	scalar *Visual NONE	NONE	NONE	NONE
Debris	scalar *Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar *Visual NONE	NONE	NONE	NONE
Appearance	scalar *Visual NORML	NORML	NORML	NORML
Odor	scalar *Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar *Visual >0.1	NEG	NEG	NEG
Free Water	scalar *Visual	NEG	NEG	NEG

OIL ANALYSIS REPORT

▲ Additives



▲ Additives



FLUID PROPERTIES method limit/base current history1 history2

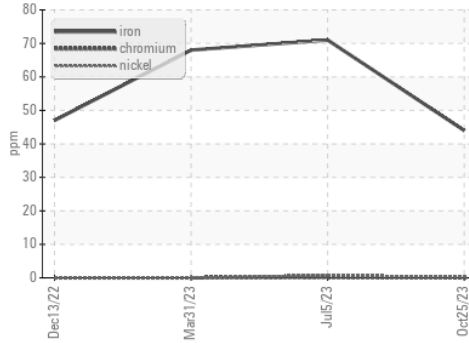
Visc @ 40°C cSt ASTM D445 80.1 ▲ **34.6** ▲ 34.7 ▲ 34.9

SAMPLE IMAGES method limit/base current history1 history2

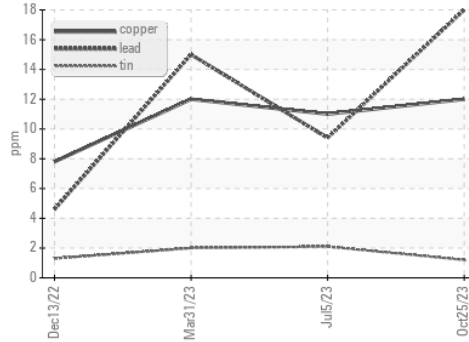
Color	history1	history2
Color	no image	no image
Bottom	no image	no image

GRAPHS

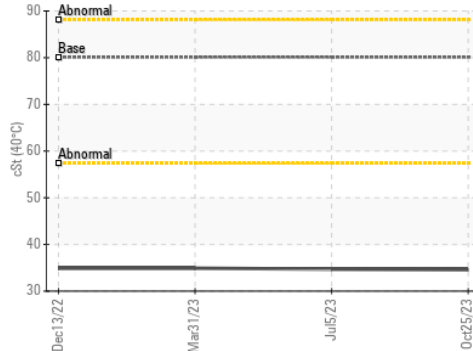
Ferrous Alloys



Non-ferrous Metals



▲ Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0101814 **Received** : 22 Nov 2023
Lab Number : 06015552 **Diagnosed** : 27 Nov 2023
Unique Number : 10754696 **Diagnostician** : Sean Felton
Test Package : FLEET

NW WHITE & CO - BEAUFORT DIVISION
 1491 YENMASSEE HIGHWAY
 VARNVILLE, SC
 US 29944
 Contact: DAVID WEBB
 63DAVIDWDAVID@GMAIL.COM
 T: (864)973-1607
 F:

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)