



PROBLEM SUMMARY

Sample Rating Trend



VISCOSITY

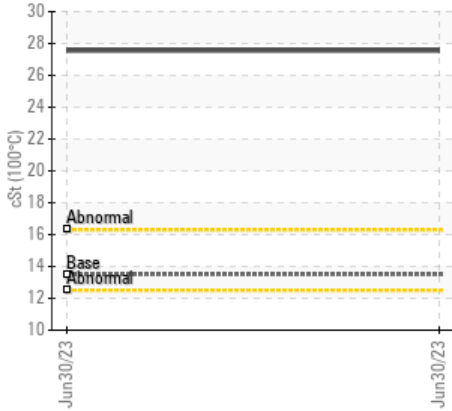


Area PARK ENERGY INVESTIGATION Machine Id TANK BULK SAMPLES

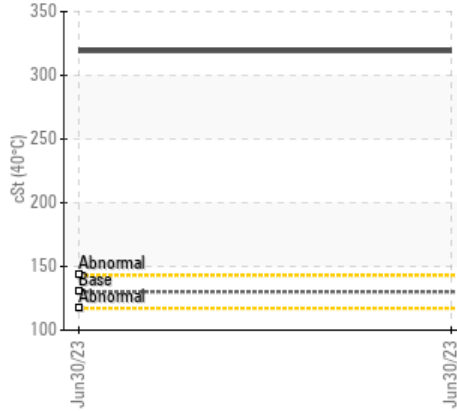
Component
Bulk Fluid Tank
Fluid
PETRO CANADA SENTRON LA 2000 (500 GAL)

COMPONENT CONDITION SUMMARY

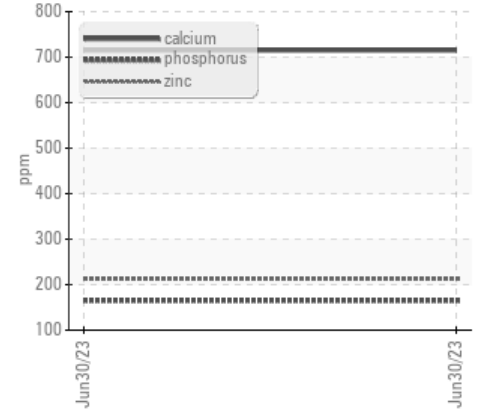
▲ Viscosity @ 100°C



▲ Viscosity @ 40°C



▲ Additives



RECOMMENDATION

This is a baseline read-out on the submitted sample.
Fresh - 75% LA2000 / 25% Lucas (Customer
Sample Comment: Fresh - 75% LA2000 / 25%
Lucas)

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	---	---
Calcium	ppm	ASTM D5185m	1237	▲ 715	---	---
Phosphorus	ppm	ASTM D5185m	270	▲ 165	---	---
Zinc	ppm	ASTM D5185m	330	▲ 212	---	---
Visc @ 40°C	cSt	ASTM D445	130.1	▲ 319.2	---	---
Visc @ 100°C	cSt	ASTM D445	13.5	▲ 27.56	---	---

Customer Id: PETBRO
Sample No.: PCA0073688
Lab Number: 05894143
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@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

OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area
PARK ENERGY INVESTIGATION
 Machine Id
TANK BULK SAMPLES
 Component
Bulk Fluid Tank
 Fluid
PETRO CANADA SENTRON LA 2000 (500 GAL)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample. Fresh - 75% LA2000 / 25% Lucas (Customer Sample Comment: Fresh - 75% LA2000 / 25% Lucas)

Fluid Condition

The oil viscosity is higher than normal. An additive depletion is indicated.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0073688	---	---
Sample Date	Client Info	30 Jun 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ATTENTION	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	0	---	---
Chromium	ppm ASTM D5185m	0	---	---
Nickel	ppm ASTM D5185m	<1	---	---
Titanium	ppm ASTM D5185m	0	---	---
Silver	ppm ASTM D5185m	2	---	---
Aluminum	ppm ASTM D5185m	1	---	---
Lead	ppm ASTM D5185m	0	---	---
Copper	ppm ASTM D5185m	<1	---	---
Tin	ppm ASTM D5185m	<1	---	---
Vanadium	ppm ASTM D5185m	0	---	---
Cadmium	ppm ASTM D5185m	<1	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	4	---	---
Barium	ppm ASTM D5185m 1	2	---	---
Molybdenum	ppm ASTM D5185m 1	3	---	---
Manganese	ppm ASTM D5185m 5	0	---	---
Magnesium	ppm ASTM D5185m 1	12	---	---
Calcium	ppm ASTM D5185m 1237	▲ 715	---	---
Phosphorus	ppm ASTM D5185m 270	▲ 165	---	---
Zinc	ppm ASTM D5185m 330	▲ 212	---	---
Sulfur	ppm ASTM D5185m 2670	2863	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	3	---	---
Sodium	ppm ASTM D5185m	2	---	---
Potassium	ppm ASTM D5185m >20	1	---	---

FLUID DEGRADATION

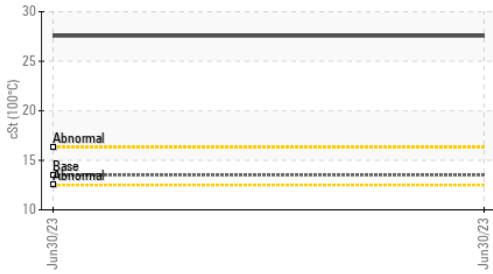
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.64	0.091	---	---
Base Number (BN)	mg KOH/g ASTM D2896 4.4	4.05	---	---

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	NEG	---	---
Free Water	scalar *Visual	NEG	---	---

OIL ANALYSIS REPORT

▲ Viscosity @ 100°C

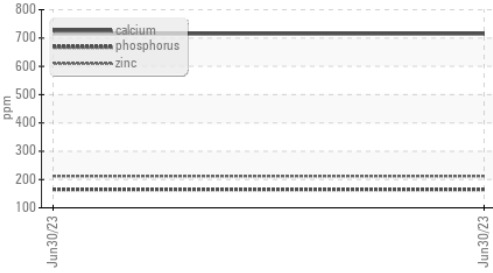


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	130.1	▲ 319.2	---	---
Visc @ 100°C	cSt	ASTM D445	13.5	▲ 27.56	---	---
Viscosity Index (VI)	Scale	ASTM D2270	99	115	---	---

SAMPLE IMAGES

	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

▲ Additives

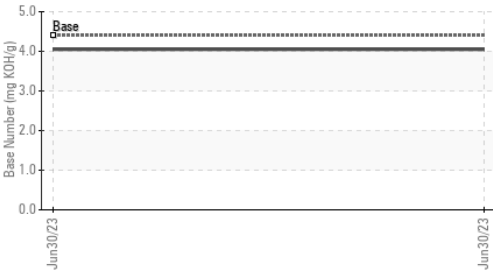


GRAPHS

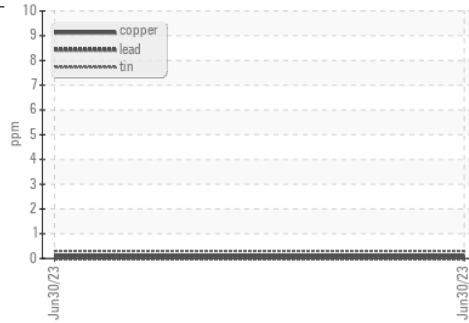
Ferrous Alloys



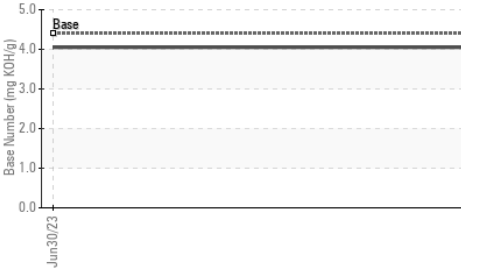
Base Number



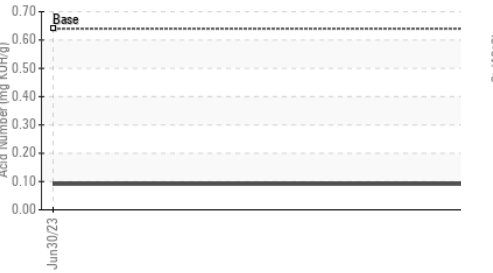
Non-ferrous Metals



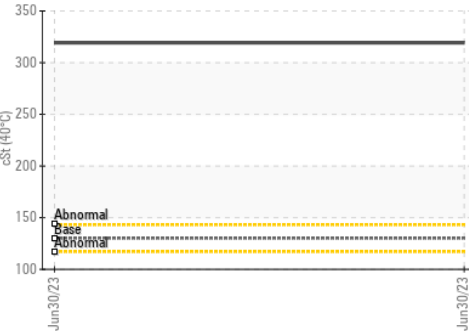
Base Number



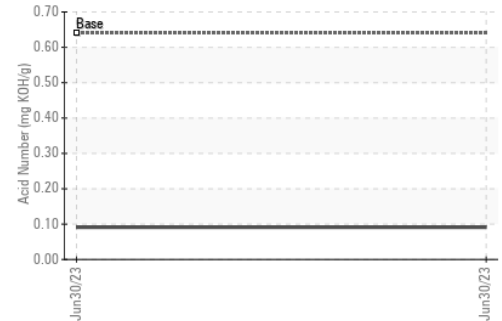
Acid Number



▲ Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0073688 **Received** : 10 Jul 2023
Lab Number : 05894143 **Diagnosed** : 13 Jul 2023
Unique Number : 10549953 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: FT-IR, KV100, TBN, VI)

PETRO-CANADA LUBRICANTS - GARRETT BAPP
 2416 N 12TH ST
 BROKEN ARROW, OK
 US 74012
 Contact: GARRETT BAPP

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)

T:
F: