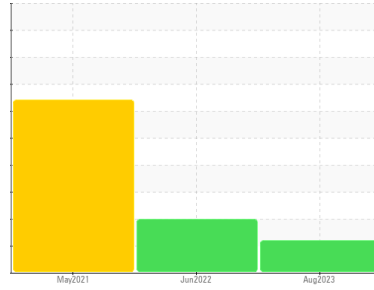


PROBLEM SUMMARY

Sample Rating Trend



WEAR



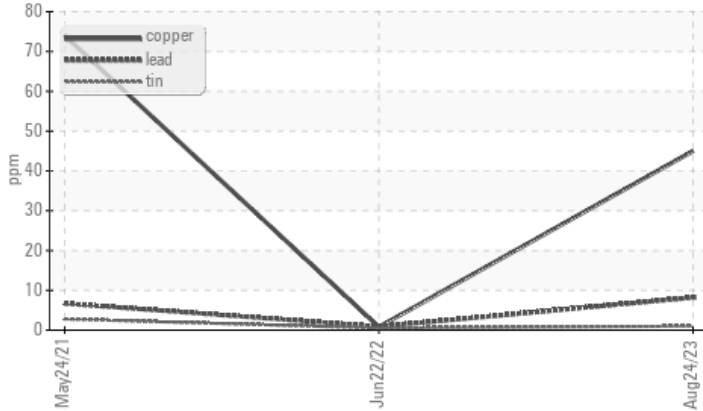
Machine Id
KOMATSU 200-3

Component
Hydraulic System

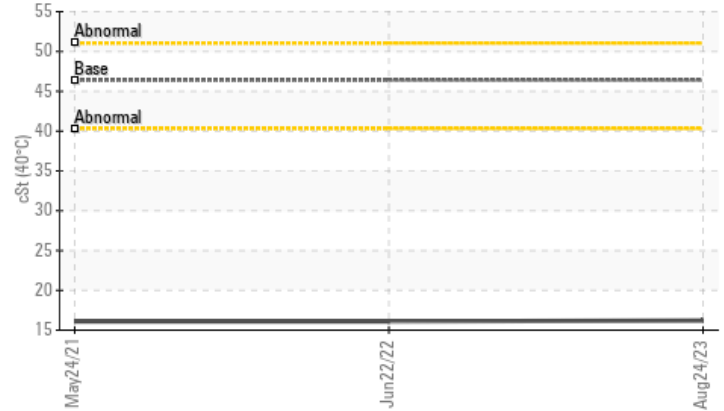
Fluid
PETRO CANADA HYDREX AW 46 (200 GAL)

COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



▲ Viscosity @ 40°C



RECOMMENDATION

We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status		ABNORMAL	ATTENTION	SEVERE
Copper	ppm	ASTM D5185m >20	<1	74
Visc @ 40°C	cSt	ASTM D445 46.4	16.1	16.1

Customer Id: TRELK
Sample No.: PCA0104045
Lab Number: 05935083
Test Package: IND 1



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

22 Jun 2022 Diag: Doug Bogart

VISCOSITY



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 oil 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



24 May 2021 Diag: Jonathan Hester

WEAR

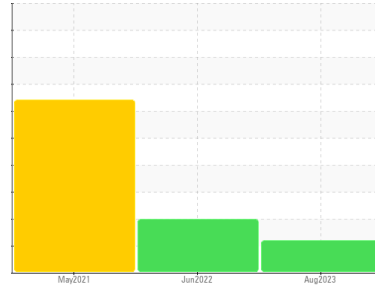


We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The copper level is severe. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

view report



Machine Id
KOMATSU 200-3
 Component
Hydraulic System
 Fluid
PETRO CANADA HYDREX AW 46 (200 GAL)



DIAGNOSIS

- Recommendation**
We recommend an early resample to monitor this condition.
- Wear**
The copper level is abnormal. All other component wear rates are normal.
- Contamination**
There is no indication of any contamination in the oil.
- Fluid Condition**
The oil viscosity is lower than normal. Confirm oil type.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0104045	PCA0076576	PCA0032696
Sample Date	Client Info	24 Aug 2023	22 Jun 2022	24 May 2021
Machine Age	hrs	4000	4000	4000
Oil Age	hrs	4000	4000	0
Oil Changed	Client Info	Not Chngd	Not Chngd	Not Chngd
Sample Status		ABNORMAL	ATTENTION	SEVERE

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	8	<1	18
Chromium	ppm ASTM D5185m >20	0	<1	0
Nickel	ppm ASTM D5185m >20	0	<1	0
Titanium	ppm ASTM D5185m	0	<1	0
Silver	ppm ASTM D5185m	0	0	<1
Aluminum	ppm ASTM D5185m >20	0	0	<1
Lead	ppm ASTM D5185m >20	8	<1	7
Copper	ppm ASTM D5185m >20	▲ 45	<1	74
Tin	ppm ASTM D5185m >20	1	<1	3
Antimony	ppm ASTM D5185m	---	---	0
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 0	0	0	<1
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 0	0	0	0
Manganese	ppm ASTM D5185m 0	<1	0	<1
Magnesium	ppm ASTM D5185m 0	17	8	9
Calcium	ppm ASTM D5185m 50	57	▲ 0	31
Phosphorus	ppm ASTM D5185m 330	218	▲ 0	238
Zinc	ppm ASTM D5185m 430	271	▲ 0	236
Sulfur	ppm ASTM D5185m 760	1181	▲ 0	619

CONTAMINANTS

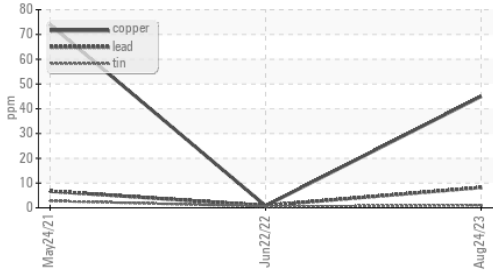
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	<1	<1	0
Sodium	ppm ASTM D5185m	1	16	<1
Potassium	ppm ASTM D5185m >20	0	32	0

VISUAL

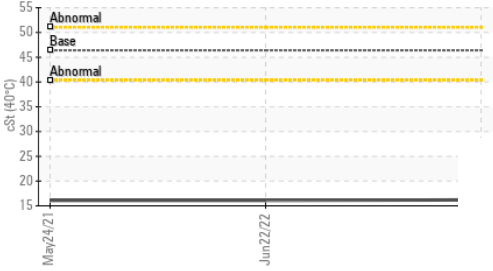
method	limit/base	current	history1	history2
White Metal	scalar *Visual NONE	NONE	NONE	LIGHT
Yellow Metal	scalar *Visual NONE	NONE	NONE	NONE
Precipitate	scalar *Visual NONE	NONE	NONE	NONE
Silt	scalar *Visual NONE	NONE	NONE	NONE
Debris	scalar *Visual NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar *Visual NONE	NONE	NONE	NONE
Appearance	scalar *Visual NORML	NORML	NORML	NORML
Odor	scalar *Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar *Visual >0.05	NEG	NEG	NEG
Free Water	scalar *Visual	NEG	NEG	NEG

OIL ANALYSIS REPORT

▲ Non-ferrous Metals



▲ Viscosity @ 40°C



FLUID PROPERTIES method limit/base current history1 history2

Visc @ 40°C cSt ASTM D445 46.4 ▲ **16.2** ▲ 16.1 ▲ 16.1

SAMPLE IMAGES method limit/base current history1 history2

Color



no image

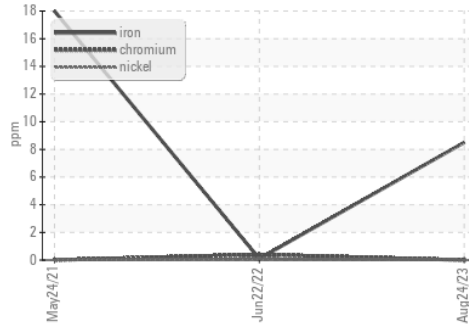
Bottom



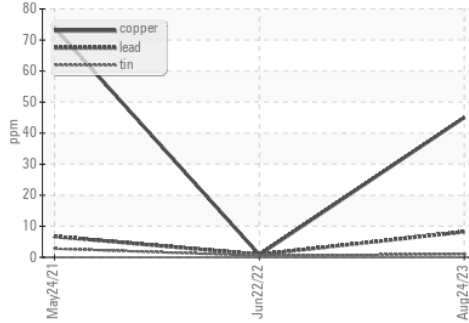
no image

GRAPHS

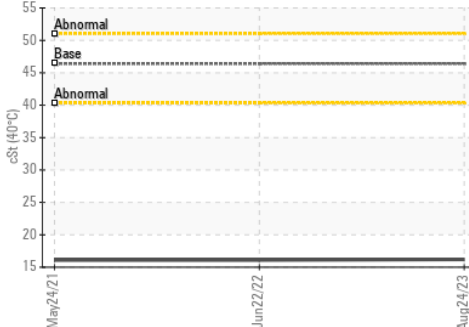
Ferrous Alloys



▲ Non-ferrous Metals



▲ Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0104045 **Received** : 25 Aug 2023
Lab Number : 05935083 **Diagnosed** : 28 Aug 2023
Unique Number : 10620354 **Diagnostician** : Don Baldrige
Test Package : IND 1

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)

TREND TECHNOLOGIES

737 FARGO AVE
 ELK GROVE VILLAGE, IL
 US 60007

Contact: ROB GABL
 rgabl@trendtechnologies.com

T:
 F: