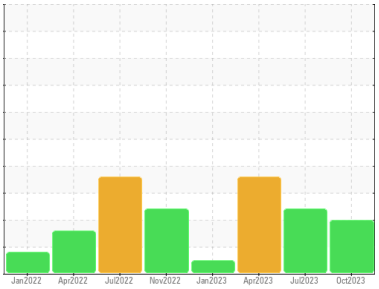
PROBLEM SUMMARY

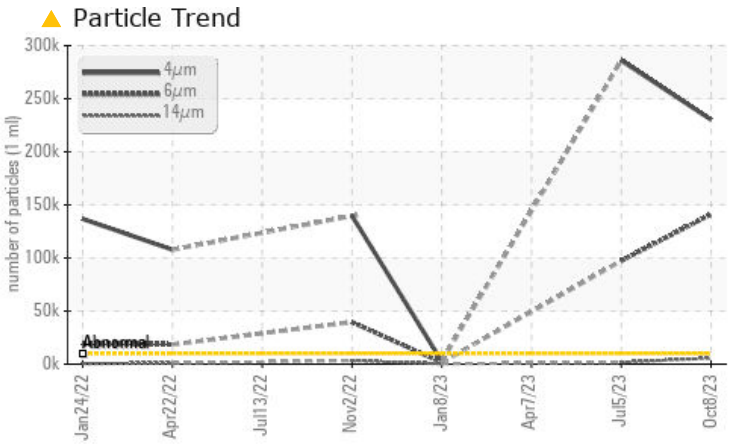
Area
FP-010
Machine Id
B24610 - CONVEYOR KSI INCLINE SCREW RAW PROD #6
Component
Auger
Fluid
PETRO CANADA SYNDURO SHB ISO 460 (--- GAL)

Sample Rating Trend



ISO

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm		ASTM D7647	>10000	▲ **230244**	▲ 286006	---
Particles >6µm		ASTM D7647	>2500	▲ **141096**	▲ 97391	---
Particles >14µm		ASTM D7647	>320	▲ **5610**	▲ 1713	---
Particles >21µm		ASTM D7647	>80	▲ **1008**	▲ 406	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **25/24/20**	▲ 25/24/18	---

Customer Id: HORAUS
Sample No.: WC0850222
Lab Number: 05978232
Test Package: IND 2

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

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

05 Jul 2023 Diag: Doug Bogart

VISCOSITY

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. Viscosity of sample indicates oil is within ISO 460 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

view report

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07 Apr 2023 Diag: Jonathan Hester

WATER

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.Gear wear is indicated. Appearance is unacceptable Free water present. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.

view report

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08 Jan 2023 Diag: Jonathan Hester

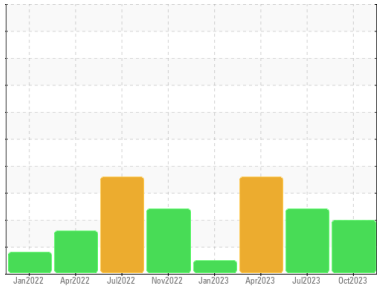
NORMAL

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 amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
FP-010
Machine Id
B24610 - CONVEYOR KSI INCLINE SCREW RAW PROD #6
Component
Auger
Fluid
PETRO CANADA SYNDURO SHB ISO 460 (--- GAL)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
There is a high amount of particulates present in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0850222**	WC0820609	WC0792023
Sample Date		Client Info		**08 Oct 2023**	05 Jul 2023	07 Apr 2023
Machine Age	mths	Client Info		**0**	0	0
Oil Age	mths	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	**147**	89	▲ 196
Chromium	ppm	ASTM D5185m	>10	**0**	0	<1
Nickel	ppm	ASTM D5185m	>10	**0**	0	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**0**	1	0
Lead	ppm	ASTM D5185m	>100	**0**	0	0
Copper	ppm	ASTM D5185m	>50	**<1**	<1	1
Tin	ppm	ASTM D5185m	>10	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

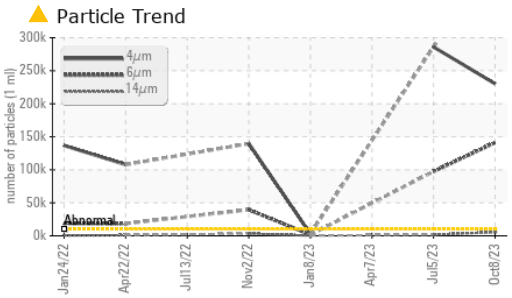
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m	5.0	**1**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	<1
Manganese	ppm	ASTM D5185m		**1**	<1	2
Magnesium	ppm	ASTM D5185m	5.0	**4**	1	<1
Calcium	ppm	ASTM D5185m	5.0	**7**	<1	2
Phosphorus	ppm	ASTM D5185m	60	**94**	102	277
Zinc	ppm	ASTM D5185m	5.0	**2**	0	6
Sulfur	ppm	ASTM D5185m	1900	**2122**	2800	1578

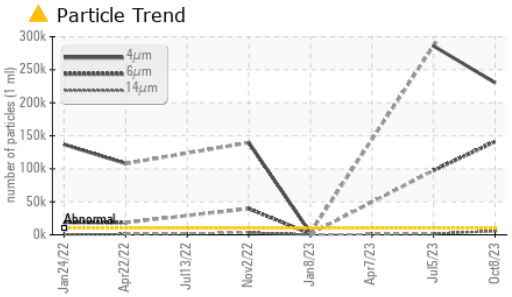
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**22**	5	5
Sodium	ppm	ASTM D5185m		**10**	<1	<1
Potassium	ppm	ASTM D5185m	>20	**9**	2	3

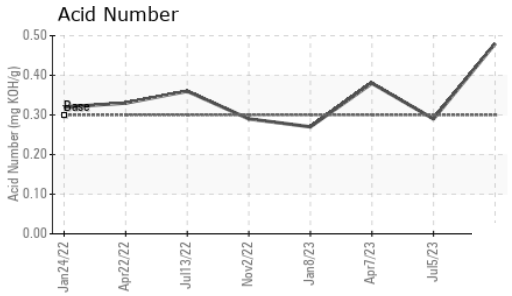
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **230244**	▲ 286006	---
Particles >6µm		ASTM D7647	>2500	▲ **141096**	▲ 97391	---
Particles >14µm		ASTM D7647	>320	▲ **5610**	▲ 1713	---
Particles >21µm		ASTM D7647	>80	▲ **1008**	▲ 406	---
Particles >38µm		ASTM D7647	>20	**14**	7	---
Particles >71µm		ASTM D7647	>4	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **25/24/20**	▲ 25/24/18	---

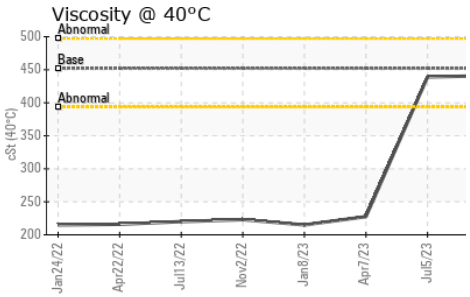
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.3	**0.48**	0.29	0.38

OIL ANALYSIS REPORT







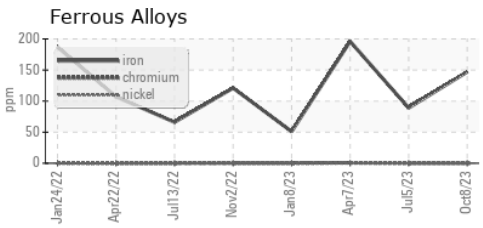


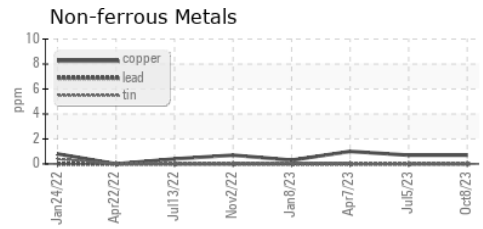
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**HAZY**	NORML	▲ MILKY
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**NEG**	NEG	0.2%
Free Water	scalar	*Visual		**NEG**	NEG	▲ 1.0

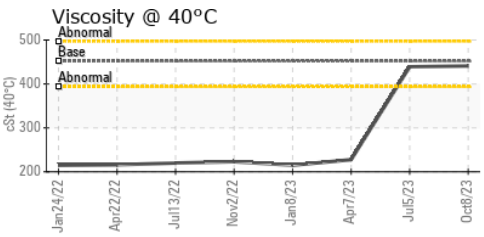
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	452	**441**	▲ 439	227.6

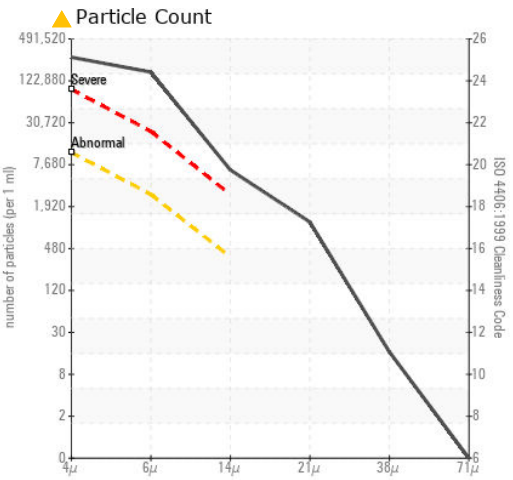
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

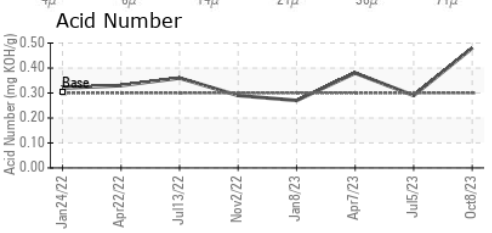
GRAPHS











Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0850222 **Received** : 13 Oct 2023
Lab Number : 05978232 **Diagnosed** : 17 Oct 2023
Unique Number : 10695527 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: PrtCount)

Certificate L2367

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)

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