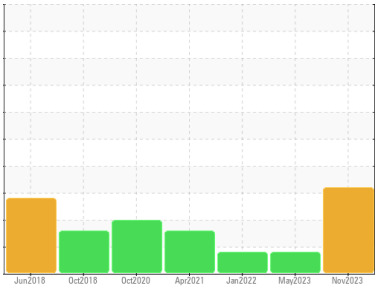
PROBLEM SUMMARY

Sample Rating Trend

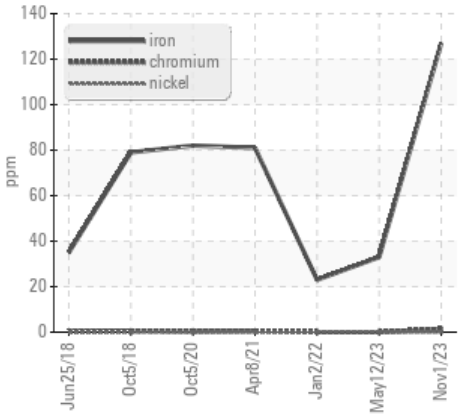


WEAR

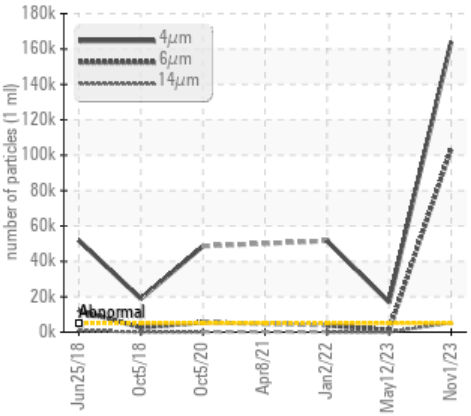
Area
PROCESSING
Machine Id
FB05432 - VISCERA PAN
Component
Hydraulic System
Fluid
PETRO CANADA SYNDURO SHB ISO 220 (--- GAL)

COMPONENT CONDITION SUMMARY

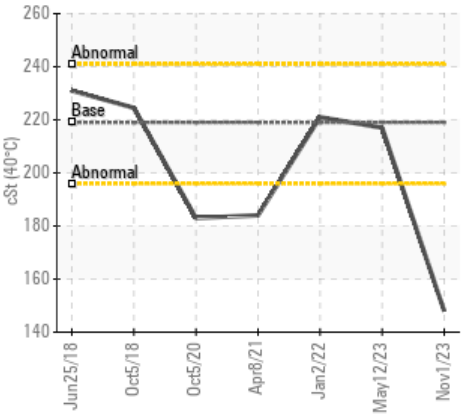
Ferrous Alloys



Particle Trend



Viscosity @ 40°C



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
Iron	ppm	ASTM D5185m	>20	▲ **127**	33	23
Particles >4µm		ASTM D7647	>5000	▲ **164022**	▲ 16901	▲ 51534
Particles >6µm		ASTM D7647	>1300	▲ **103593**	1082	▲ 3918
Particles >14µm		ASTM D7647	>160	▲ **5255**	46	69
Particles >21µm		ASTM D7647	>40	▲ **485**	11	15
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **25/24/20**	▲ 21/17/13	▲ 23/19/13
Visc @ 40°C	cSt	ASTM D445	219	▲ **148**	217	221

Customer Id: HORFREWC
Sample No.: WC0856085
Lab Number: 06010734
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +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
Change Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

12 May 2023 Diag: Doug Bogart

ISO

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

02 Jan 2022 Diag: Angela Borella

ISO

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

08 Apr 2021 Diag: Doug Bogart

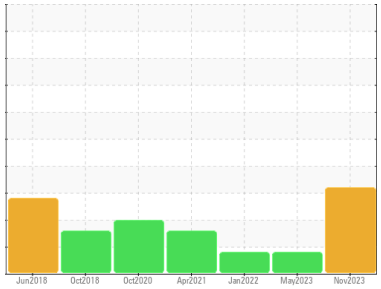
WEAR

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.The iron level is abnormal. Moderate concentration of visible dirt/debris present in the oil. The oil viscosity is lower than normal. 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



WEAR

Area
PROCESSING
Machine Id
FB05432 - VISCERA PAN
Component
Hydraulic System
Fluid
PETRO CANADA SYNDURO SHB ISO 220 (--- GAL)

DIAGNOSIS

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

Wear
The iron level is abnormal. All other component wear rates are normal.

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

Fluid Condition
Viscosity of sample indicates oil is within ISO 150 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0856085**	WC0481367	WC0638913
Sample Date		Client Info		**01 Nov 2023**	12 May 2023	02 Jan 2022
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

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.05	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	▲ **127**	33	23
Chromium	ppm	ASTM D5185m	>20	**1**	0	0
Nickel	ppm	ASTM D5185m	>20	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**<1**	<1	0
Lead	ppm	ASTM D5185m	>20	**0**	0	0
Copper	ppm	ASTM D5185m	>20	**2**	0	0
Tin	ppm	ASTM D5185m	>20	**<1**	0	0
Antimony	ppm	ASTM D5185m		**---**	---	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

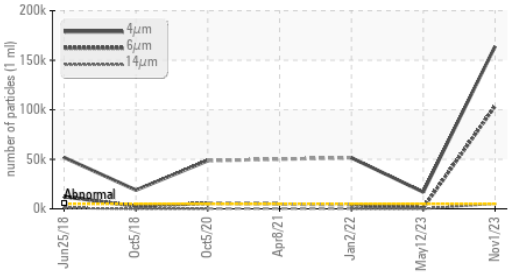
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**69**	0	2
Barium	ppm	ASTM D5185m	5.0	**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	0	0
Manganese	ppm	ASTM D5185m		**2**	<1	<1
Magnesium	ppm	ASTM D5185m	5.0	**0**	0	0
Calcium	ppm	ASTM D5185m	5.0	**5**	0	<1
Phosphorus	ppm	ASTM D5185m	100	**708**	390	396
Zinc	ppm	ASTM D5185m	5.0	**0**	0	1
Sulfur	ppm	ASTM D5185m	1900	**17335**	1250	918

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**11**	1	3
Sodium	ppm	ASTM D5185m		**2**	<1	0
Potassium	ppm	ASTM D5185m	>20	**2**	<1	0

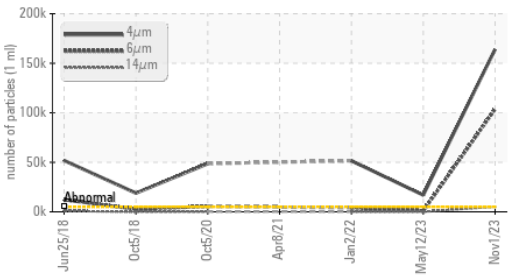
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **164022**	▲ 16901	▲ 51534
Particles >6µm		ASTM D7647	>1300	▲ **103593**	1082	▲ 3918
Particles >14µm		ASTM D7647	>160	▲ **5255**	46	69
Particles >21µm		ASTM D7647	>40	▲ **485**	11	15
Particles >38µm		ASTM D7647	>10	**0**	0	0
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **25/24/20**	▲ 21/17/13	▲ 23/19/13

OIL ANALYSIS REPORT

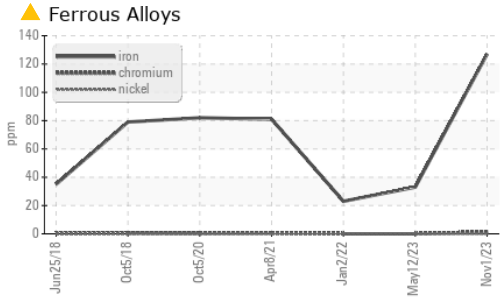
Particle Trend



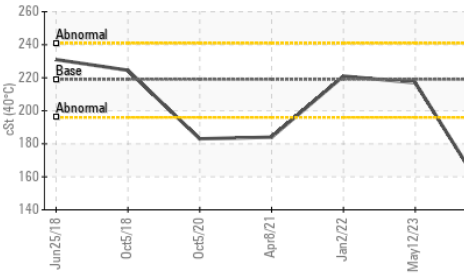
Particle Trend



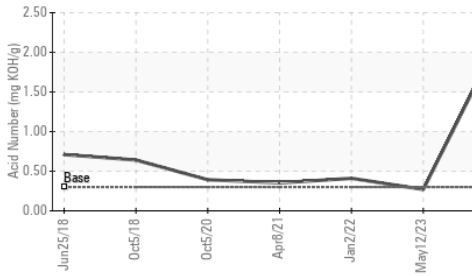
Ferrous Alloys



Viscosity @ 40°C



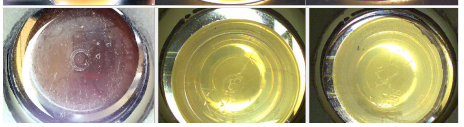
Acid Number



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.3	**2.07**	0.27	0.41

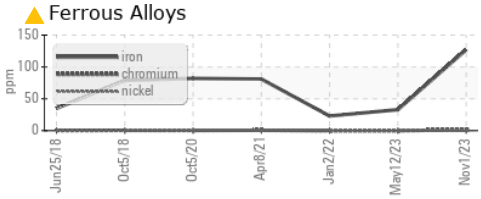
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	219	▲ **148**	217	221

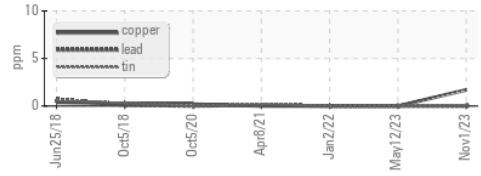
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

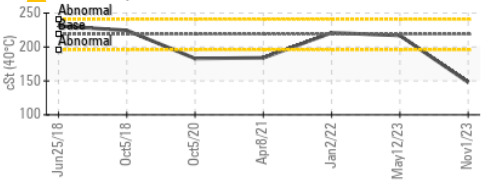
Ferrous Alloys



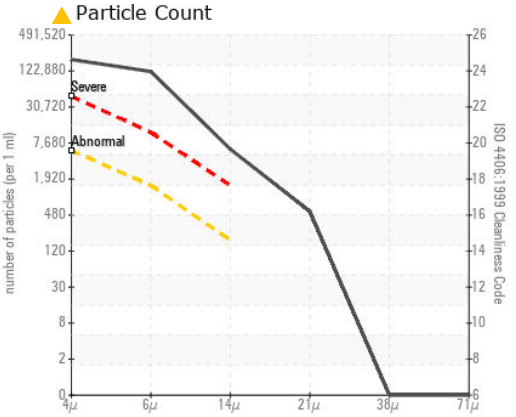
Non-ferrous Metals



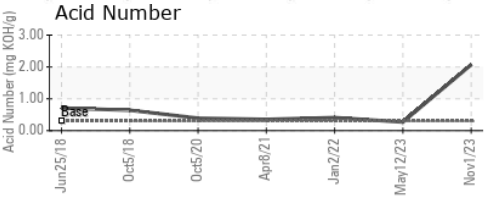
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0856085
Lab Number : 06010734
Unique Number : 10749878
Test Package : IND 2

Received : 17 Nov 2023
Diagnosed : 20 Nov 2023
Diagnostician : Don Baldridge

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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