

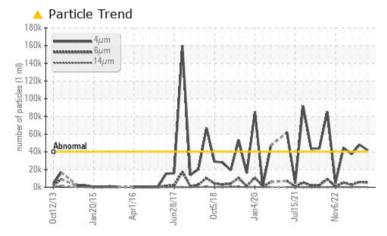
# **PROBLEM SUMMARY**

## Area **PROCESSING** Machine Id **B08557 SHACKLE CHAIN (S/N 870291908.10.10.001)** Component

Gearbox

PETRO CANADA SYNDURO SHB ISO 220 (--- GAL)

# COMPONENT CONDITION SUMMARY



# RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS							
Sample Status			ATTENTION	ATTENTION	NORMAL		
Particles >4µm	ASTM D7647	>40000	<u> </u>	<b>4</b> 7931	37419		
Particles >6µm	ASTM D7647	>5000	<b>6</b> 5183	<b>5</b> 943	2701		
Oil Cleanliness	ISO 4406 (c)	>22/19/16	<u> </u>	▲ 23/20/15	22/19/13		

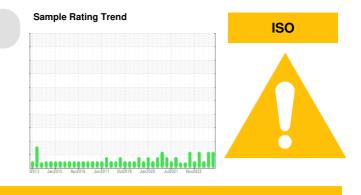
Customer Id: HORFREWC Sample No.: WC0856076 Lab Number: 06010735 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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.		
Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.		

# HISTORICAL DIAGNOSIS



# 01 Aug 2023 Diag: Wes Davis

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is a light 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.



# 12 May 2023 Diag: Wes Davis



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## 03 Feb 2023 Diag: Wes Davis



# We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is a light 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







# **OIL ANALYSIS REPORT**

## Area **PROCESSING** Machine Id **B08557 SHACKLE CHAIN (S/N 870291908.10.10.001)** Component

Gearbox

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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

# Wear

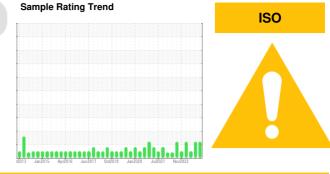
All component wear rates are normal.

# Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

# Fluid Condition

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

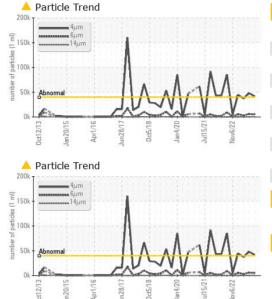


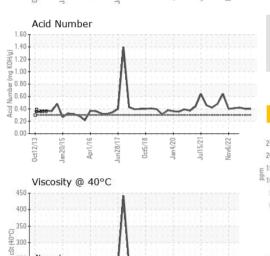
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0856076	WC0808517	WC0774989
Sample Date		Client Info		01 Nov 2023	01 Aug 2023	12 May 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ATTENTION	ATTENTION	NORMAL
CONTAMINATIC	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	17	14	25
Chromium	ppm	ASTM D5185m	>15	<1	0	0
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	3	3
_ead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m	5.0	0	1	0
Molybdenum	ppm	ASTM D5185m		0	<1	19
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	5.0	0	<1	0
Calcium	ppm	ASTM D5185m	5.0	0	3	6
Phosphorus	ppm	ASTM D5185m	100	91	87	91
Zinc	ppm	ASTM D5185m	5.0	0	6	0
Sulfur	ppm	ASTM D5185m	1900	1822	2122	2458
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	9	9	11
Sodium	ppm	ASTM D5185m		3	0	3
Potassium	ppm	ASTM D5185m	>20	1	1	<1
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>40000	<b>41743</b>	47931	37419
Particles >6µm		ASTM D7647	>5000	<u> </u>	▲ 5943	2701
Particles >14µm		ASTM D7647	>640	315	273	76
Particles >21µm		ASTM D7647	>160	67	61	16
Particles >38µm		ASTM D7647	>40	1	2	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>22/19/16	<b>A</b> 23/20/15	▲ 23/20/15	22/19/13
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.3	0.40	0.40	0.42
04.00) D			0			

Contact/Location: JERRY SORRICK - HORFREWC



# **OIL ANALYSIS REPORT**





0ct5/18

un28/17

250

20

150

Jan 20/15

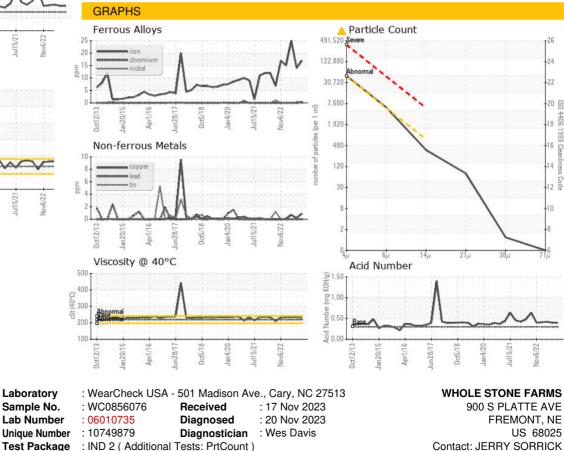
nr1/16

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	LIGHT	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	>0.2	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	231	234	234
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color



Bottom



Certificate L2367 jasorrick@wholestonefarms.com 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)

Jul15/21.

Jan4/20

Contact/Location: JERRY SORRICK - HORFREWC

F: x:

T: (402)753-3434