

PROBLEM SUMMARY

Sample Rating Trend

ISO

PROCESSING

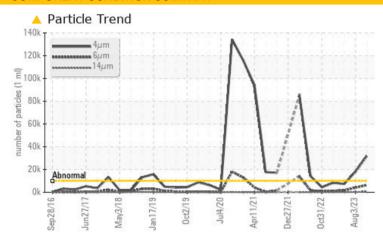
B61341 - HITCH BONE BREAKER HYD UNIT (S/N 116101)

Component

Hydraulic System

PETRO CANADA PURITY FG AW HYDRAULIC 46 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	ABNORMAL	ATTENTION		
Particles >4μm	ASTM D7647	>10000	△ 31766	<u>▲</u> 18146	7296		
Particles >6μm	ASTM D7647	>1300	△ 6183	4040	<u> </u>		
Particles >14μm	ASTM D7647	>160	477	<u>^</u> 234	90		
Particles >21μm	ASTM D7647	>40	150	53	18		
Particles >38μm	ASTM D7647	>10	<u> </u>	1	0		
Oil Cleanliness	ISO 4406 (c)	>20/17/14	22/20/16	<u> </u>	2 0/18/14		

Customer Id: HORFREWC Sample No.: WC0808533 Lab Number: 06010723 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 if applicable.

HISTORICAL DIAGNOSIS

03 Aug 2023 Diag: Wes Davis



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



12 May 2023 Diag: Angela Borella





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 moderate 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.



01 Feb 2023 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





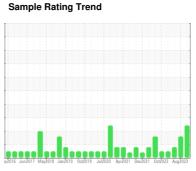
OIL ANALYSIS REPORT

PROCESSING

B61341 - HITCH BONE BREAKER HYD UNIT (S/N 116101)

Hydraulic System

PETRO CANADA PURITY FG AW HYDRAULIC 46 (--- GAL)





DIAGNOSIS

Recommendation

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.

Contamination

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

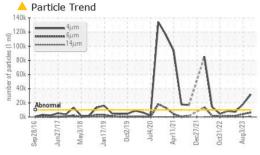
Fluid Condition

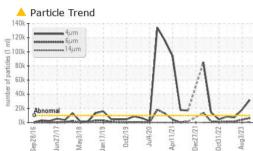
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

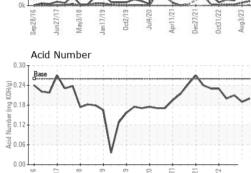
LIC 46 (GAL)		p2016 Jun201	7 May2018 Jan2019 Oct201	9 Jul2020 Apr2021 Dec2021 Oct2	022 Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0808533	WC0826140	WC0732414
Sample Date		Client Info		01 Nov 2023	03 Aug 2023	12 May 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
CONTAMINATIO	N	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	2	2	1
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	<1
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m		1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium		ASTM D5185m	>20	<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	1	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		314	460	386
Zinc	ppm	ASTM D5185m		0	2	0
Sulfur	ppm	ASTM D5185m		123	660	537
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	4	3
Sodium	ppm	ASTM D5185m		2	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	1	0
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000	▲ 31766	<u>▲</u> 18146	7296
Particles >6µm		ASTM D7647	>1300	<u>6183</u>	4040	<u>▲</u> 1559
Particles >14μm		ASTM D7647	>160	477	<u>234</u>	90
Particles >21μm		ASTM D7647	>40	<u> </u>	53	18
Particles >38μm		ASTM D7647	>10	<u> </u>	1	0
Particles >71µm		ASTM D7647	>3	2	0	0
Oil Cleanliness		ISO 4406 (c)	>20/17/14	<u>22/20/16</u>	△ 21/19/15	<u>△</u> 20/18/14
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.26	0.20	0.19	0.21

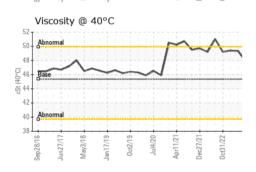


OIL ANALYSIS REPORT









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	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
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I LOID I NOI LI	TILO	memou	IIIIII/Dase	Current	HISTOLAL	HISTOLY
Visc @ 40°C	cSt	ASTM D445	45.36	48.7	47.9	49.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color





GRAPHS Ferrous Alloys A Particle Count 491 520 122,88 30.72 1,920 Non-ferrous Metals 480 Apr11/21 Viscosity @ 40°C Acid Number (B) 0.30 SHOW 0.24 € 0.18 0.12 0.06 0.00 G





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: WC0808533 : 06010723 : 10749867

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received Diagnosed

: 17 Nov 2023 Diagnostician

: 20 Nov 2023 : Don Baldridge

Contact: JERRY SORRICK jasorrick@wholestonefarms.com

T: (402)753-3434

WHOLE STONE FARMS

900 S PLATTE AVE

FREMONT, NE

US 68025

F: x:

* - 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)