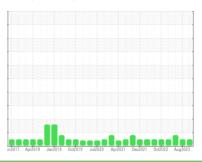


OIL ANALYSIS REPORT

PROCESSING PROCESSING F00240 SOUTH BRISKET SAW (S/N 118490)

Hydraulic System

PETRO CANADA PURITY FG HYDRAULIC AW 68 (--- GAL)



Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

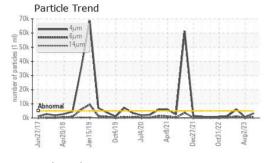
Fluid Condition

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

Sample Number Client Info WC0808532 WC0826212 WC0664988 Sample Date Client Info O1 Nov 2023 02 Aug 2023 12 May 2023 12 May 2023 02 Aug 2023 12 May 2023 12 May 2023 02 Aug 2023 03	4W 00 (GAL)		in2017 Apr20	18 Jan 2019 Oct2019 J	ul2020 Apr2021 Dec2021 Oct203	22 Aug2023	
Cample Date Client Info O1 Nov 2023 02 Aug 2023 12 May 202	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age mths Client Info 0 0 0 Dil Age mths Client Info 0 0 0 Dil Change mths Client Info N/A N/A N/A N/A Dil Change Control Client Info N/A N/A N/A N/A N/A Wear Control method Imit base current history1 history1 Wear WC Method >0.05 NEG NEG NEG WEAR METALS method Imit base current history1 history1 ron ppm ASTM 05185m >20 <1 0 <1 Chromium ppm ASTM 05185m >20 <1 0 <1 Silver ppm ASTM 05185m >20 <1 0 <1 Aluminum ppm ASTM 05185m >20 <1 <1 0 Aluminum ppm ASTM 05185m >20 0	Sample Number		Client Info		WC0808532	WC0826212	WC0664980
Dil Changed	Sample Date		Client Info		01 Nov 2023	02 Aug 2023	12 May 202
Dil Changed Client Info N/A N/A N/A N/A NORMAL NORMAL ATTENTION	Machine Age	mths	Client Info		0	0	0
CONTAMINATION method limit/base current history1 history2	Oil Age	mths	Client Info		0	0	0
CONTAMINATION method limit/base current history1 history2 WEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185m >20 <1	Oil Changed		Client Info		N/A	N/A	N/A
Water WC Method >0.05 NEG NEG NEG VWEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185m >20 <1 0 <1 Chromium ppm ASTM D5185m >20 <1 0 <1 Chromium ppm ASTM D5185m >20 <1 0 <1 Clickel ppm ASTM D5185m >20 0 <1 0 <1 Siliver ppm ASTM D5185m >20 0 0 0 <1 Lead ppm ASTM D5185m >20 0 0 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0	Sample Status				NORMAL	NORMAL	ATTENTION
WEAR METALS method limit/base current history1 history2 ron ppm ASTM D5185m >20 <1	CONTAMINATIO	N	method	limit/base	current	history1	history2
Chromium ppm ASTM D5185m >20	Water		WC Method	>0.05	NEG	NEG	NEG
Description	WEAR METALS		method	limit/base	current	history1	history2
ASTM D5185m S20 O S1 O O	ron	ppm	ASTM D5185m	>20	<1	0	<1
Silver	Chromium	ppm	ASTM D5185m	>20	<1	0	0
Silver	Nickel	ppm	ASTM D5185m	>20	0	<1	0
Silver ppm ASTM D5185m 20 <1 0 0 0 0 0	Γitanium	ppm	ASTM D5185m		<1	0	<1
Aluminum ppm ASTM D5185m >20 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1 0 <1	Silver		ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >20 0 0 0 Copper ppm ASTM D5185m >20 1 <1	-			>20			
Copper ppm ASTM D5185m >20 1 <1 0 Fin ppm ASTM D5185m >20 0 0 0 Vanadium ppm ASTM D5185m >20 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 351 410 440 Zinc ppm ASTM D5185m 150 18 6 Sulf							
Tin							
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 0 0 0 0 Boron ppm ASTM D5185m 0 1 0 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 <1 0 0 Magnesium ppm ASTM D5185m 0 <1 0 0 Calcium ppm ASTM D5185m 0 0 0 0 Phosphorus ppm ASTM D5185m 351 410 440 440 Zinc ppm ASTM D5185m 150 553 567 CONTAMINANTS method limit/base current history1 history2 Sili	• •						
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ADDITIVES							
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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 351 410 440 Zinc ppm ASTM D5185m 0 18 6 Sulfur ppm ASTM D5185m 150 553 567 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 4 4 4 4 Potassium ppm ASTM D5185m >20 <1 <1 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 3283 538 6079 Particles >21μm ASTM D7647 >160 36 31 72 Particles >38μm		ppm	ASTM D5185m		0		0
Magnesium ppm ASTM D5185m 0 <1 0 Calcium ppm ASTM D5185m 0 0 0 Phosphorus ppm ASTM D5185m 351 410 440 Zinc ppm ASTM D5185m 0 18 6 Sulfur ppm ASTM D5185m 150 553 567 CONTAMINANTS method limit/base current history1 history2 Gilicon ppm ASTM D5185m >15 4 4 4 4 Godium ppm ASTM D5185m 2 0 <1 0 <1 <1 0 <1 <1 0 <1 <1 0 <1 <1 0 <1 <1 <1 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <t< td=""><td>•</td><td>ppm</td><td></td><td></td><td>-</td><td></td><td></td></t<>	•	ppm			-		
Calcium ppm ASTM D5185m 0 0 0 Phosphorus ppm ASTM D5185m 351 410 440 Zinc ppm ASTM D5185m 0 18 6 Sulfur ppm ASTM D5185m 150 553 567 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 4 4 4 Sodium ppm ASTM D5185m 2 0 <1	Manganese	ppm	ASTM D5185m		<1	0	0
Phosphorus ppm ASTM D5185m 351 410 440 Zinc ppm ASTM D5185m 0 18 6 Sulfur ppm ASTM D5185m 150 553 567 CONTAMINANTS method limit/base current history1 history2 Gilicon ppm ASTM D5185m 2 0 <1	Magnesium	ppm	ASTM D5185m		0	<1	0
Zinc ppm ASTM D5185m 0 18 6 Sulfur ppm ASTM D5185m 150 553 567 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 4 4 4 Sodium ppm ASTM D5185m 2 0 <1 0 Potassium ppm ASTM D5185m 20 <1 <1 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 3283 538 6079 Particles >6μm ASTM D7647 >1300 687 157 1207 Particles >21μm ASTM D7647 >40 6 12 21 Particles >38μm ASTM D7647 >10 1 1 2 Particles >71μm ASTM D7647 >3 0 0 0 Dill Cleanliness	Calcium	ppm	ASTM D5185m		0		0
Sulfur ppm ASTM D5185m 150 553 567 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 4 4 4 Sodium ppm ASTM D5185m 2 0 <1 0 Potassium ppm ASTM D5185m >20 <1 <1 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 3283 538 6079 Particles >6μm ASTM D7647 >1300 687 157 1207 Particles >14μm ASTM D7647 >40 6 12 21 Particles >21μm ASTM D7647 >10 1 1 2 Particles >71μm ASTM D7647 >3 0 0 0 Particles >71μm ASTM D7647 >3 0 0 0 Dil Clean	Phosphorus	ppm	ASTM D5185m		351	410	440
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 4 4 4 Sodium ppm ASTM D5185m 2 0 <1	Zinc	ppm	ASTM D5185m		0	18	6
Soliticon ppm ASTM D5185m >15 4 4 4 4 A Soliticon ppm ASTM D5185m 2 0 <1 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1 0 0 <1	Sulfur	ppm	ASTM D5185m		150	553	567
Sodium ppm ASTM D5185m 2 0 <1 Potassium ppm ASTM D5185m >20 <1	CONTAMINANTS	;	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <1 <1 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 3283 538 ▲ 6079 Particles >6μm ASTM D7647 >1300 687 157 1207 Particles >14μm ASTM D7647 >160 36 31 72 Particles >21μm ASTM D7647 >40 6 12 21 Particles >38μm ASTM D7647 >10 1 1 2 Particles >71μm ASTM D7647 >3 0 0 0 Dil Cleanliness ISO 4406 (c) >19/17/14 19/17/12 16/14/12 20/17/13 FLUID DEGRADATION method limit/base current history1 history2	Silicon	ppm	ASTM D5185m	>15	4	4	4
Potassium ppm ASTM D5185m >20 <1 <1 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 3283 538 ▲ 6079 Particles >6μm ASTM D7647 >1300 687 157 1207 Particles >14μm ASTM D7647 >160 36 31 72 Particles >21μm ASTM D7647 >40 6 12 21 Particles >38μm ASTM D7647 >10 1 1 2 Particles >71μm ASTM D7647 >3 0 0 0 Dil Cleanliness ISO 4406 (c) >19/17/14 19/17/12 16/14/12 △ 20/17/13 FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		2	0	<1
Particles >4μm ASTM D7647 >5000 3283 538 6079 Particles >6μm ASTM D7647 >1300 687 157 1207 Particles >14μm ASTM D7647 >160 36 31 72 Particles >21μm ASTM D7647 >40 6 12 21 Particles >38μm ASTM D7647 >10 1 1 2 Particles >71μm ASTM D7647 >3 0 0 0 Dil Cleanliness ISO 4406 (c) >19/17/14 19/17/12 16/14/12 ≥20/17/13 FLUID DEGRADATION method limit/base current history1 history2	Potassium			>20	<1	<1	0
Particles >6μm ASTM D7647 >1300 687 157 1207 Particles >14μm ASTM D7647 >160 36 31 72 Particles >21μm ASTM D7647 >40 6 12 21 Particles >38μm ASTM D7647 >10 1 1 2 Particles >71μm ASTM D7647 >3 0 0 0 Dil Cleanliness ISO 4406 (c) >19/17/14 19/17/12 16/14/12 20/17/13 FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14μm ASTM D7647 >160 36 31 72 Particles >21μm ASTM D7647 >40 6 12 21 Particles >38μm ASTM D7647 >10 1 1 2 Particles >71μm ASTM D7647 >3 0 0 0 Dil Cleanliness ISO 4406 (c) >19/17/14 19/17/12 16/14/12 20/17/13 FLUID DEGRADATION method limit/base current history1 history2	Particles >4µm		ASTM D7647	>5000	3283	538	▲ 6079
Particles >21μm ASTM D7647 >40 6 12 21 Particles >38μm ASTM D7647 >10 1 1 2 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/12 16/14/12 20/17/13 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm		ASTM D7647	>1300	687	157	1207
Particles >21μm ASTM D7647 >40 6 12 21 Particles >38μm ASTM D7647 >10 1 1 2 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/12 16/14/12 20/17/13 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>160	36	31	72
Particles >38μm ASTM D7647 >10 1 1 2 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 19/17/12 16/14/12 △ 20/17/13 FLUID DEGRADATION method limit/base current history1 history2	•		ASTM D7647				
Particles >71μm ASTM D7647 >3 0 0 0 Dil Cleanliness ISO 4406 (c) >19/17/14 19/17/12 16/14/12 Δ 20/17/13 FLUID DEGRADATION method limit/base current history1 history2							
Dil Cleanliness ISO 4406 (c) >19/17/14 19/17/12 16/14/12 ▲ 20/17/13 FLUID DEGRADATION method limit/base current history1 history2	•						
	Oil Cleanliness				-		
Acid Number (AN) mg KOH/g ASTM D8045 0.26 0.28 0.28 0.30	FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.26	0.28	0.28	0.30



OIL ANALYSIS REPORT



VISUAL		method				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	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

Acid	d Nun	nber							
B 0.30	_	Ш					$\overline{}$		
(mg KO		acksquare		$\overline{}$	√	+++		$\overline{}$	
Acid Number (mg KOH/g)									
Pg 0.10							Ш		
0.00	81/0	61/9	Oct4/19 -	1/20	8/21	12/2	1/22	2/23	
Jun27/	Apr20/	Jan15/19	Oct	Juk	Apr8/	Dec2	0ct31	Aug2/	

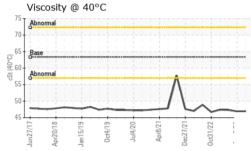
FLUID PROPERTIES 46.9 46.9 47.3 Visc @ 40°C cSt ASTM D445 63.34

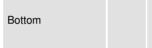
SAMPLE IMAGES

Color

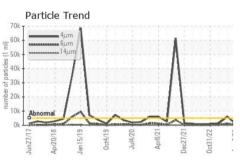


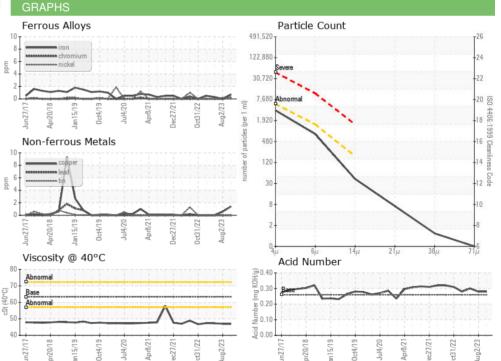
















Certificate L2367

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0808532 : 06010722

: 10749866

Received Diagnosed

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

US 68025 Contact: JERRY SORRICK 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)

T: (402)753-3434 F: x:

WHOLE STONE FARMS

900 S PLATTE AVE

FREMONT, NE

Report Id: HORFREWC [WUSCAR] 06010722 (Generated: 11/20/2023 17:59:47) Rev: 1

Contact/Location: JERRY SORRICK - HORFREWC