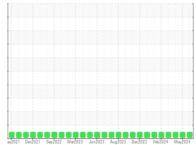


# **OIL ANALYSIS REPORT**

Sample Rating Trend





# **COLD MILL/CM-3STD-1S SOUTH 3-STAND HAGC HPU 1526-007-4410**

Hydraulic System

PETRO CANADA HYDREX AW 68 (450 GAL)

### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

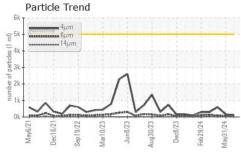
### **Fluid Condition**

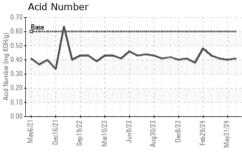
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

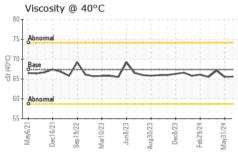
L)		ay2021 Dec202	21 Sep 2022 Mar 2023 Ju	in2023 Aug2023 Dec2023 Feb202	4 May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004574	KFS0004481	KFS0004434
Sample Date		Client Info		10 Jul 2024	31 May 2024	13 May 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	J	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	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	<1
Lead	ppm	ASTM D5185m	>20	0	0	5
Copper	ppm	ASTM D5185m	>20	0	0	0
Tin	ppm	ASTM D5185m	>20	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	0	0	0	2
Calcium	ppm	ASTM D5185m	50	50	53	50
Phosphorus	ppm	ASTM D5185m	330	324	375	348
Zinc	ppm	ASTM D5185m	430	400	452	450
Sulfur	ppm	ASTM D5185m	760	865	951	1182
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	0
Sodium	ppm	ASTM D5185m		2	<1	2
Potassium	ppm	ASTM D5185m	>20	0	<1	2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	129	158	594
Particles >6µm		ASTM D7647	>1300	34	67	79
Particles >14µm		ASTM D7647	>160	3	14	7
Particles >21µm		ASTM D7647	>40	1	5	1
Particles >38µm		ASTM D7647	>10	1	1	0
Particles >71μm		ASTM D7647		0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	14/12/9	14/13/11	16/13/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

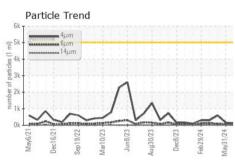


## **OIL ANALYSIS REPORT**









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
<b>Emulsified Water</b>	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	5.5	67.1

SAMPLE IMAGES



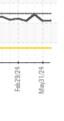
**Bottom** 

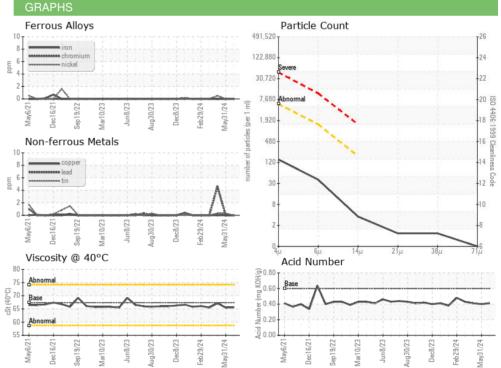
Color















Certificate 12367

Laboratory Sample No.

: KFS0004574 Lab Number : 06234824

Test Package : IND 2

Unique Number : 11123658

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jul 2024 **Tested** : 15 Jul 2024

Diagnosed

: 15 Jul 2024 - Wes Davis

US 35661 Contact: Randy Nichols randall.nichols@constellium.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.

T: (256)386-6956 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

**CONSTELLIUM** 

4805 SECOND STREET

MUSCLE SHOALS, AL