

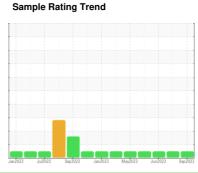
OIL ANALYSIS REPORT

COLD MILL/CM-5-STAND **Roll Contour HPU 1710-043-0110**

Component

Hydraulic System

PETRO CANADA HYDREX AW 68 (150 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)		Jan 2022	Jul2022 Sep2022	Jan2023 May2023 Jun2023	Sep 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0003355	KFS0003790	KFS0002186
Sample Date		Client Info		11 Sep 2023	03 Jul 2023	28 Jun 2023
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
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	8	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m		1	9	4
Tin	ppm	ASTM D5185m	>20	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	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	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	0	0	0	0
Calcium	ppm	ASTM D5185m	50	51	64	51
Phosphorus	ppm	ASTM D5185m	330	352	346	355
Zinc	ppm	ASTM D5185m	430	445	446	462
Sulfur	ppm	ASTM D5185m	760	853	1065	1056
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	1	<1
Sodium	ppm	ASTM D5185m	00	0	0	<1
Potassium	ppm	ASTM D5185m		0	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	456	499	122
Particles >6µm		ASTM D7647	>1300	161	99	36
Particles >14μm		ASTM D7647	>160	12	11	5
Particles >21µm		ASTM D7647		4	4	2
Particles >38μm		ASTM D7647	>10	2	1	0
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/11	16/14/11	14/12/10
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.60	0.41	0.39	0.39



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package

: IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KFS0003355 : 05962864 : 10669415

Received Diagnosed Diagnostician

: 27 Sep 2023 : 28 Sep 2023 : Don Baldridge

Sep11/23

CONSTELLIUM 4805 SECOND STREET MUSCLE SHOALS, AL

US 35661 Contact: Randy Nichols

randall.nichols@constellium.com

T: (256)386-6956

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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