

OIL ANALYSIS REPORT

Area COLD MILL/CM-3STD-1S CENTERGUIDE HPU 1526-007-1685

Hydraulic System

PETRO CANADA HYDREX AW 68 (200 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

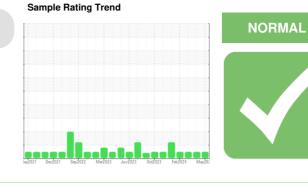
All component wear rates are normal.

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.



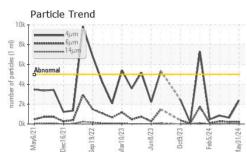
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		KFS0004482	KFS0004475	KFS0004844	
Sample Date		Client Info		31 May 2024	03 Apr 2024	29 Feb 2024	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
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	0	0	0	
Chromium	ppm	ASTM D5185m	>20	0	0	0	
Nickel	ppm	ASTM D5185m	>20	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>20	0	0	0	
Lead	ppm	ASTM D5185m	>20	0	0	0	
Copper	ppm	ASTM D5185m	>20	1	0	0	
Tin	ppm	ASTM D5185m	>20	<1	0	0	
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	<1	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	57	55	51	
Phosphorus	ppm	ASTM D5185m	330	382	353	335	
Zinc	ppm	ASTM D5185m	430	473	449	420	
Sulfur	ppm	ASTM D5185m	760	996	923	824	
CONTAMINANTS	\$	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1	
Sodium	ppm	ASTM D5185m		<1	0	<1	
Potassium	ppm	ASTM D5185m	>20	1	0	0	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	2381	629	845	
Particles >6µm		ASTM D7647	>1300	214	224	247	
Particles >14 μ m		ASTM D7647	>160	17	32	18	
Particles >21µm		ASTM D7647	>40	3	6	3	
Particles >38µm		ASTM D7647	>10	0	0	1	
Particles >71µm		ASTM D7647	>3	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/15/11	16/15/12	17/15/11	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.60	0.40	0.41	0.47	
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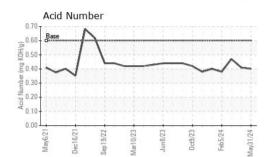
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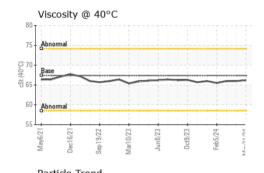
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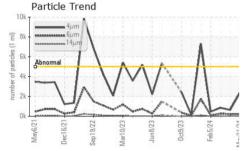


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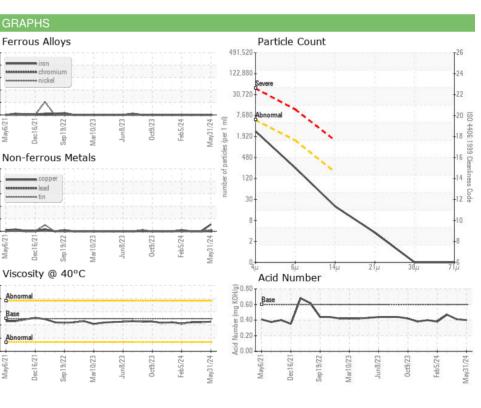








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67.4	66.2	66.0	66.0
SAMPLE IMAGES	\$	method	limit/base	current	history1	history2
Color				a.		-
Bottom						



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 CONSTELLIUM Sample No. : KFS0004482 4805 SECOND STREET Received : 05 Jun 2024 Lab Number : 06200087 Tested : 06 Jun 2024 MUSCLE SHOALS, AL Unique Number : 11062210 Diagnosed : 06 Jun 2024 - Wes Davis US 35661 Test Package : IND 2 **Contact: Randy Nichols** Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. randall.nichols@constellium.com T: (256)386-6956 * - 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)

10

80

75 (0-04) tso 55

60

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