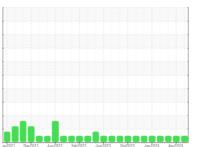


OIL ANALYSIS REPORT

Sample Rating Trend







COLD MILL/CM-3STD-1S AUX HPU AUX HYDRAULIC POWER UNIT

Hydraulic System

PETRO CANADA HYDREX AW 68 (1800 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.

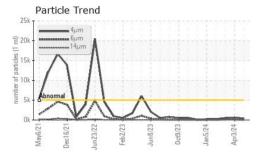
Fluid Condition

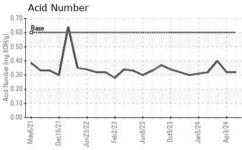
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

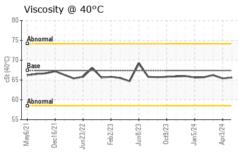
#2021						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004480	KFS0004477	KFS0004845
Sample Date		Client Info		31 May 2024	03 Apr 2024	29 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	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	54	51	55
Phosphorus	ppm	ASTM D5185m	330	374	341	341
Zinc	ppm	ASTM D5185m	430	456	433	436
Sulfur	ppm	ASTM D5185m	760	955	917	854
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	0
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	371	605	470
Particles >6µm		ASTM D7647	>1300	55	132	170
Particles >14µm		ASTM D7647	>160	4	19	20
Particles >21µm		ASTM D7647	>40	1	6	5
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/13/9	16/14/11	16/15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

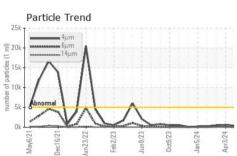


OIL ANALYSIS REPORT









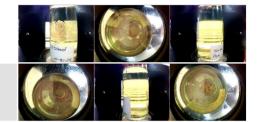
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
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
Vice @ 40°C	oS+	ASTM DAAS	67.4	65.6	65.4	66.2

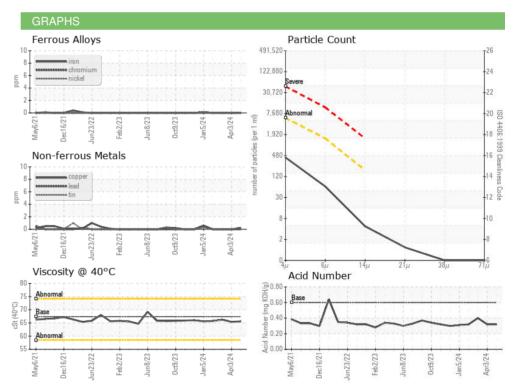
/isc @ 40°C	cSt	ASTM D445	67.4	65.6	65.4	66.2

Color

SAMPLE IMAGES

Bottom









Laboratory Sample No. Unique Number : 11062211

: KFS0004480 Lab Number : 06200088

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

: 06 Jun 2024 Diagnosed

: 06 Jun 2024 - Wes Davis

: 05 Jun 2024

Test Package : IND 2 Certificate 12367 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) **CONSTELLIUM**

4805 SECOND STREET MUSCLE SHOALS, AL US 35661

Contact: Josh Edwards joshua.edwards@constellium.com

T: (256)386-6613