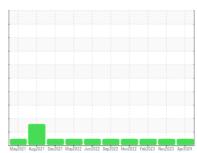


OIL ANALYSIS REPORT

Sample Rating Trend







COLD MILL/CM-3STD-2N HAGC 1536-001-4410

Hydraulic System

PETRO CANADA HYDREX AW 68 (1500 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.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004395	KFS0004866	KFS0002535
Sample Date		Client Info		08 Apr 2024	10 Nov 2023	08 Feb 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
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	1	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	0	0	<1
Tin	ppm	ASTM D5185m	>20	5	4	<1
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
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	0	<1	0	0
Calcium	ppm	ASTM D5185m	50	53	44	46
Phosphorus	ppm	ASTM D5185m	330	346	322	324
Zinc	ppm	ASTM D5185m	430	450	429	423
Sulfur	ppm	ASTM D5185m	760	1050	784	924
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm		>15	<1	0	<1
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	> 20	<1 0	<1 0	<1 0
FLUID CLEANLIN	ppm	method	limit/base	current	history1	history2
Particles >4µm	LOO	ASTM D7647	>5000	408	881	164
Particles >6µm		ASTM D7647	>1300	77	235	46
Particles >14µm		ASTM D7647	>160	7	17	4
Particles >21µm		ASTM D7647		2	4	2
Particles >38µm		ASTM D7647		0	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/13/10	17/15/11	15/13/9
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2
A - ! -! Ni ! (ANI)		ACTM DODAE	0.00	0.44	0.00	0.07

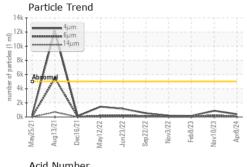
Acid Number (AN)

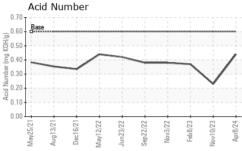
mg KOH/g ASTM D8045 0.60

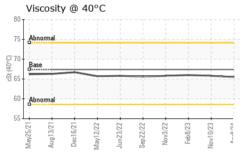
0.23

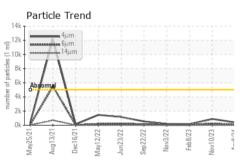


OIL ANALYSIS REPORT









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	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 DE OPPORTUEO						
FLUID PROPERTIES		method				history2

I LOID I HOI LITT	ILO					
Visc @ 40°C	cSt	ASTM D445	67.4	65.5	65.8	66.0

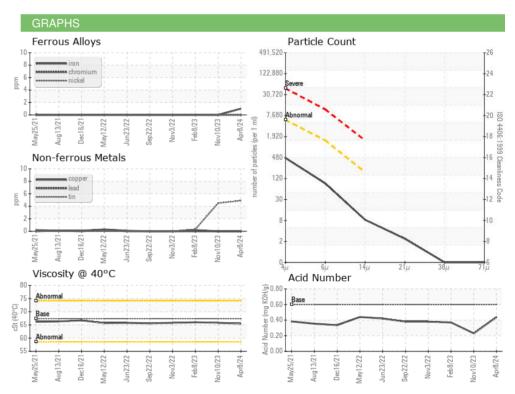
SAMPLE IMAGES	method	

Color

Bottom











Laboratory Sample No.

Lab Number : 06142992 Unique Number : 10967800

: KFS0004395

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 Apr 2024 **Tested** : 10 Apr 2024

Diagnosed : 10 Apr 2024 - Wes Davis

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)

4805 SECOND STREET

MUSCLE SHOALS, AL US 35661

Contact: Randy Nichols randall.nichols@constellium.com

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CONSTELLIUM