

## **OIL ANALYSIS REPORT**

## Area HOTLINE/SCALPER Machine Id SCALPER MAIN HYD RESV 1401-001-4010

Hydraulic System

PETRO CANADA HYDREX AW 68 (60 GAL)

#### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

## Wear

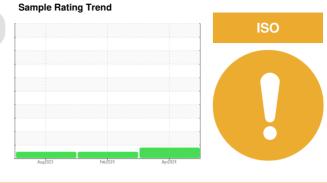
All component wear rates are normal.

### Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

#### **Fluid Condition**

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



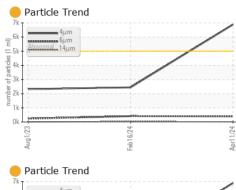
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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		KFS0004857	KFS0004835	KFS0003805		
Sample Date		Client Info		11 Apr 2024	16 Feb 2024	01 Aug 2023		
Machine Age	hrs	Client Info		0	0	0		
Oil Age	hrs	Client Info		0	0	0		
Oil Changed		Client Info		N/A	N/A	N/A		
Sample Status				ATTENTION	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	<1		
Chromium	ppm	ASTM D5185m	>20	0	0	0		
Nickel	ppm	ASTM D5185m	>20	<1	0	0		
Titanium	ppm	ASTM D5185m		0	0	<1		
Silver	ppm	ASTM D5185m		0	0	0		
Aluminum	ppm	ASTM D5185m	>20	<1	0	<1		
Lead	ppm	ASTM D5185m	>20	<1	0	0		
Copper	ppm	ASTM D5185m	>20	0	0	<1		
Tin	ppm	ASTM D5185m	>20	<1	5	<1		
Vanadium	ppm	ASTM D5185m		0	0	<1		
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	1	<1		
Molybdenum	ppm	ASTM D5185m	0	0	0	0		
Manganese	ppm	ASTM D5185m	0	<1	0	<1		
Magnesium	ppm	ASTM D5185m	0	4	2	7		
Calcium	ppm	ASTM D5185m	50	4	4	1		
Phosphorus	ppm	ASTM D5185m	330	338	345	355		
Zinc	ppm	ASTM D5185m	430	13	35	24		
Sulfur	ppm	ASTM D5185m	760	1562	936	1161		
CONTAMINANTS	6	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>15	1	0	1		
Sodium	ppm	ASTM D5185m		<1	0	<1		
Potassium	ppm	ASTM D5185m	>20	2	0	1		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>5000	6881	2444	2322		
Particles >6µm		ASTM D7647	>1300	396	413	243		
Particles >14μm		ASTM D7647	>160	14	26	8		
Particles >21µm		ASTM D7647	>40	5	8	3		
Particles >38µm		ASTM D7647	>10	1	1	0		
Particles >71µm		ASTM D7647		1	0	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>20/16/11</b>	18/16/12	18/15/10		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.60	1.27	1.51	1.37		
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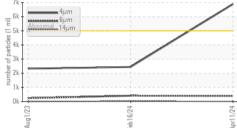
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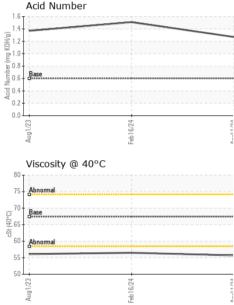
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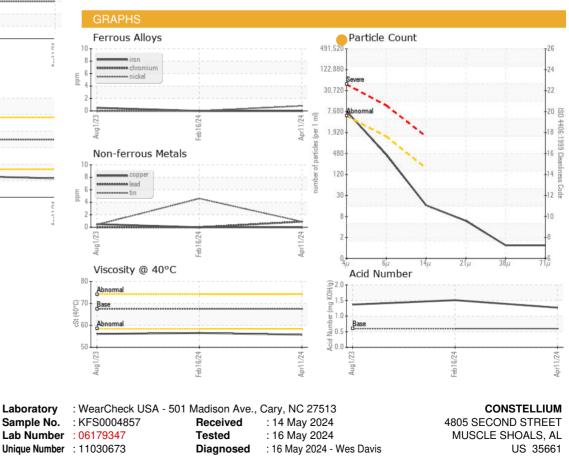
# **OIL ANALYSIS REPORT**







MOLIAI			11 1. 0			
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	LIGHT	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	55.7	56.5	56.1
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				•	•	Processor
Bottom						



Certificate L2367 To discuss To discuss \* - Denotes

 Certificate 12367
 Test Package
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 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 joel.

 \* - 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: Joel Even joel.even@constellium.com T: (256)740-7490 2012) F:

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Submitted By: COLD MILL - Josh Edwards