

# **OIL ANALYSIS REPORT**

#### Sample Rating Trend



# Machine Id HP4 Component **Hydraulic System** PETRO CANADA HYDREX AW 46 (430 LTR)

## DIAGNOSIS

#### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA HYDREX AW 46, however, a fluid match indicates that this fluid is ISO 46 Hydraulic Oil (Food Grade). Please confirm the oil type and grade on your next sample.

#### 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

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

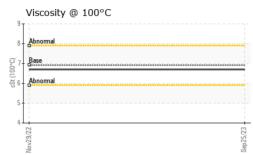
-)		-	Nov2022	Sep2023			
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PC0076755	PC0029857		
Sample Date		Client Info		25 Sep 2023	29 Nov 2022		
Machine Age r	nths	Client Info		0	56		
Oil Age r	nths	Client Info		0	56		
Oil Changed		Client Info		N/A	N/A		
Sample Status				NORMAL	ATTENTION		
WEAR METALS		method	limit/base	current	history1	history2	
Iron p	opm	ASTM D5185(m)	>20	4	5		
Chromium p	opm	ASTM D5185(m)	>20	0	0		
Nickel p	opm	ASTM D5185(m)	>20	0	0		
Titanium p	opm	ASTM D5185(m)		0	0		
Silver p	opm	ASTM D5185(m)		0	0		
Aluminum p	opm	ASTM D5185(m)	>20	0	0		
	opm	ASTM D5185(m)	>20	0	0		
	opm	ASTM D5185(m)	>20	1	1		
	opm	ASTM D5185(m)	>20	0	0		
	opm	ASTM D5185(m)		0	<1		
,	opm	ASTM D5185(m)		0	0		
	opm	ASTM D5185(m)		0	0		
	opm	ASTM D5185(m)		0	0		
ADDITIVES		method	limit/base	current	history1	history2	
Boron g	opm	ASTM D5185(m)	0	<1	<1		
	opm	ASTM D5185(m)	0	<1	0		
	opm	ASTM D5185(m)	0	0	0		
	opm	ASTM D5185(m)		0	0		
	opm	ASTM D5185(m)	0	0	<1		
	opm	ASTM D5185(m)	50	<1	<u> </u>		
	opm	ASTM D5185(m)	330	445	475		
	opm	ASTM D5185(m)	430	13	▲ 13		
-	opm	ASTM D5185(m)	760	787	798		
	opm	ASTM D5185(m)	700	<1	<1		
		× /	11 11 11				
CONTAMINANT	5	method	limit/base	current	history1	history2	
	opm	ASTM D5185(m)	>15	3	3		
	opm	ASTM D5185(m)		<1	<1		
	opm	ASTM D5185(m)	>20	0	<1		
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	485	108		
Particles >6µm		ASTM D7647	>1300	200	33		
Particles >14µm		ASTM D7647	>160	29	4		
Particles >21µm		ASTM D7647	>40	9	2		
Particles >38µm		ASTM D7647	>10	1	0		
Particles >71µm		ASTM D7647	>3	0	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	16/15/12	14/12/9		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	ng KOH/g	ASTM D974*	0.70	0.20	0.20		
:56:13) Rev: 2	-			Contact/Location: Serge Losier - WESCAP			

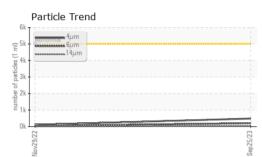
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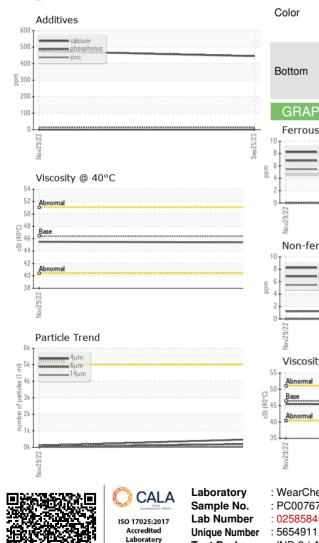
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VISUAL		method	limit/base	current	history1	history2
Vhite Metal	scalar	Visual*	NONE	NONE	NONE	
ellow Metal	scalar	Visual*	NONE	NONE	NONE	
recipitate	scalar	Visual*	NONE	NONE	NONE	
ilt	scalar	Visual*	NONE	NONE	NONE	
ebris	scalar	Visual*	NONE	NONE	NONE	
and/Dirt	scalar	Visual*	NONE	NONE	NONE	
ppearance	scalar	Visual*	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
mulsified Water	scalar	Visual*	>0.05	NEG	NEG	
ree Water	scalar	Visual*		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
/isc @ 40°C	cSt	ASTM D7279(m)	46.4	45.4	45.5	
/isc @ 100°C	cSt	ASTM D7279(m)	6.92	6.7	6.7	
/iscosity Index (VI)	Scale	ASTM D2270*	104	99	99	
SAMPLE IMAG	iES	method	limit/base	current	history1	history2
Color						no image
Bottom GRAPHS						no image
Ferrous Alloys				Particle Count	-	
			491,52			T <sup>26</sup>
iron chromium			122,88	0		-24
nickel			30,72	Severe		-22
•						
122	***********	***********************	E 7.68	0 Abnormal		-20
Nov29/22			Sep 25/23 (per 1 ml	0-	•	-18
Non-ferrous Metals	5		sapiti 48	0		-16
			of ba		<b>N</b>	
copper			ag 12			-14
tin			≅ 3	0-		-12
				8-		-10
22	********		3	2		
Nov29/22			Sep 25/23	2-		
			ŏ	0. 4μ 6μ	14µ 21µ	38µ 71µ
Viscosity @ 40°C			Dig 0 s	Acid Number		
Abnormal			8.0,4 0.0 0.0 Windber 0.0 0.0 0.0 0.0 0.0	Base		
Base			E 0.0	0		
Abnormal			ag 0.4	0		
				0		
29/22 .			Sep25/23 ·	Nov29/22 -		
Nov29/			Sep.	Nové		6
02585845	75 Apple Received Diagnos Diagnosi	ed : 02 (	lington, ON I Sep 2023 Oct 2023 rin Marson	_7L 5H9		ND FISHERIE REAU STREE CAP-PELE, NI CA E4N 1V

To discuss this sample report, contact Customer Service at 1-800-268-2131. serge.losier@westmorlandfisheries.ca Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Test Package : IND 2 (Additional Tests: KV100, VI)

F:

Contact: Serge Losier

T: (506)530-0426