

OIL ANALYSIS REPORT



Machine Id **225** Component **Hydraulic System** Fluid **PETRO CANADA HYDREX AW 46 (--- GAL)**

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

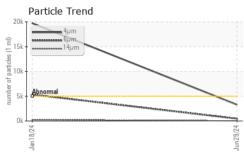
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

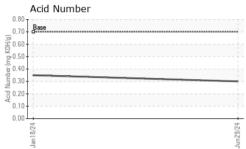
Fluid Condition

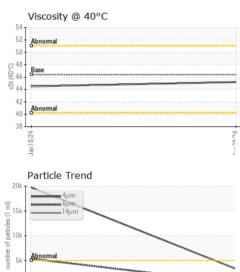
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0932550	WC0888528	
Sample Date		Client Info		29 Jun 2024	18 Jan 2024	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	ABNORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	2	2	
Chromium	ppm	ASTM D5185(m)	>10	<1	0	
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		2	0	
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	
Lead	ppm	ASTM D5185(m)	>10	<1	<1	
Copper	ppm	ASTM D5185(m)	>75	1	<1	
Tin	ppm	ASTM D5185(m)	>10	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	2	2	
Barium	ppm	ASTM D5185(m)	0	0	0	
Molybdenum	ppm	ASTM D5185(m)	0	0	0	
Manganese	ppm	ASTM D5185(m)	0	0	0	
Magnesium	ppm	ASTM D5185(m)	0	1	2	
Calcium	ppm	ASTM D5185(m)	50	72	80	
Phosphorus	ppm	ASTM D5185(m)	330	334	340	
Zinc	ppm	ASTM D5185(m)	430	428	422	
Sulfur	ppm	ASTM D5185(m)	760	1296	1381	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	<1	1	
Sodium	ppm	ASTM D5185(m)		<1	<1	
Potassium	ppm	ASTM D5185(m)	>20	0	1	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	3289	19736	
Particles >6µm		ASTM D7647	>1300	462	▲ 5334	
Particles >14µm		ASTM D7647	>160	25	260	
Particles >21µm		ASTM D7647	>40	5	33	
Particles >38µm		ASTM D7647	>10	1	2	
Particles >71µm		ASTM D7647	>3	1	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	19/16/12	▲ 21/20/15	
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0k Jan18/24

OIL ANALYSIS REPORT

		FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
		Acid Number (AN)	mg KOH/g	ASTM D974*	0.70	0.30	0.35	
		VISUAL		method	limit/base	current	history1	history2
		White Metal	scalar	Visual*	NONE	NONE	NONE	
		Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
	California Constanting of the local division	Precipitate	scalar	Visual*	NONE	NONE	NONE	
	24	Silt	scalar	Visual*	NONE	NONE	NONE	
	Jun29/24	Debris	scalar	Visual*	NONE	NONE	NONE	
	~	Sand/Dirt		Visual*	NONE	NONE	NONE	
		Appearance	scalar	Visual*	NORML	NORML	NORML	
		Odor	scalar	Visual*	NORML	NORML	NORML	
		Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	
		Free Water	scalar	Visual*		NEG	NEG	
		FLUID PROPER		method	limit/base	current	history1	history2
		Visc @ 40°C	cSt	ASTM D7279(m)	46.4	45.2	44.5	
	24 +			. ,				
	Jun29/24	SAMPLE IMAGE	5	method	limit/base	current	history1	history2
		Color						no image
		Bottom						no image
		GRAPHS						
	ţ. ac-	Ferrous Alloys			401 520	Particle Count		30
	1	10 iron 1			491,520			1 ²⁶
		E 5-			122,880			-24
		dd 3			30,720	Pevele		-22
		0			7.680	Abnormal		20
		Jan 18/24			Jun29/24 (per 1 m]			-20 -18 -16
		Jan 1			Zunf 1.920		· · · · · · · · · · · · · · · · · · ·	-18
		Non-ferrous Meta	ls		Jun 29/24 Jun 29/24 056'1 ml) 899'2			-16
		10 copper 1			j. 120		`	+14
	Canada Shi Person and and a state of	- lead			quin		<hr/>	
	10.00	ā. 5 tin			= 30	1		-12
	1				8	+		-10
		3/24			3/24	-		-8
		Jan 18/24			Jun29/24			
		Viscosity @ 40°C				نۇ Acid Number	14μ 21μ	38µ 71µ
		55 Abnormal			운0.80	Acid Number		
		So Base			9.60			
		± 45 -			<u>لة</u> 0.40			
		^형 40 <mark>Abnormal</mark>			(B)(HO) 80 (B)(HO) 80	-		
		35			ğ 0.00	L.		
		Jan 18/24			Jun29/24	Jan 18/24		A C D C
		7			-	7		-
CALA L	aboratory.	: WearCheck - C8-117	5 Appleby	Line, Burlin	igton, ON L7I	_ 5H9 RONI/IF	ON SHORE EXC	AVATING LTD
Testing Accreditation No. 1005018	ample No.	: WC0932550	Receiv	ved :10) Jul 2024			INTOSH BLV
	ab Number		Tested		I Jul 2024		V	AUGHAN, ON
	nique Number est Package		Diagn	osea :11	Jul 2024 - W	es Davis	Contact	CA L4K 4P3 Service Tean
122202								
	ample renort	contact Customer Serv	vice at 1-8	00-268-213	1.		Service	team@roni c
discuss this sa t denoted (*) d	outside scope	contact Customer Serv e of accreditation, (m) m tation are based on the	nethod mo	dified, (e) te	sted at exteri		service	team@roni.c:. T F

Validity of results Report Id: RONVAU [WCAMIS] 02647058 (Generated: 07/11/2024 17:28:32) Rev: 1

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