

WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL

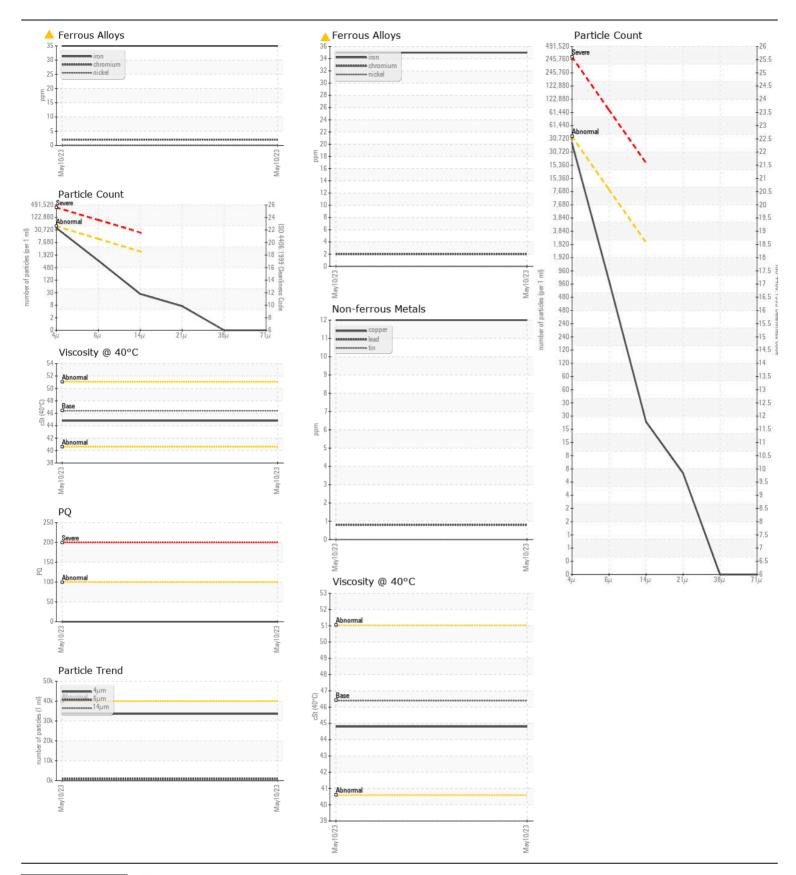


Area
RONI
Machine Id
136

Component Hydraulic System

PETRO CANADA HYDREX AW 46 (--- GAL)

PETRO CANADA HYDREX AW	/ 40 ( GAL)				-,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		LH0261691		
	Sample Date		Client Info		10 May 2023		
	Machine Age	hrs	Client Info		2600		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAD			4.0TM D04.04*				
WEAR	PQ		ASTM D8184*	0.5	0		
Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.	Iron	ppm	ASTM D5185(m)		<u>△</u> 35		
	Chromium	ppm	ASTM D5185(m)	>10	2		
	Nickel	ppm	ASTM D5185(m)	>10	0		
	Titanium	ppm	ASTM D5185(m)		<1		
	Silver	ppm	ASTM D5185(m)	00	0		
	Aluminum	ppm	ASTM D5185(m)	>20	5		
	Lead	ppm	ASTM D5185(m)		<1		
	Copper	ppm	ASTM D5185(m)	>150	12		
	Tin	ppm	ASTM D5185(m)	>10	0		
	Vanadium	ppm	ASTM D5185(m)	NONE	0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>50	18		
CONTAININATION	Potassium	ppm	ASTM D5185(m)		2		
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Water	le le	WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647		33597		
	Particles >6µm		ASTM D7647	>10000	921		
	Particles >14μm		ASTM D7647	>2500	23		
	Particles >21µm		ASTM D7647	>640	6		
	Particles >38µm		ASTM D7647	>160	0		
	Particles >71µm		ASTM D7647	>40	0		
	Oil Cleanliness		ISO 4406 (c)	>22/20/18	22/17/12		
	Silt	scalar	Visual*	NONE	NONE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML		
	<b>Emulsified Water</b>	scalar	Visual*	>0.1	NEG		
FLUID CONDITION	Sodium		ASTM D5185(m)		4		
FLUID CONDITION		ppm	. ,	0	1		
The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Boron Barium	ppm	ASTM D5185(m) ASTM D5185(m)		2		
		ppm	ASTM D5185(m) ASTM D5185(m)		0		
	Molybdenum Manganese	ppm	ASTM D5185(m) ASTM D5185(m)		<1 <1		
	Magnesium	ppm	ASTM D5185(m) ASTM D5185(m)		<1 24		
	Calcium	ppm	ASTM D5185(m)		24 87		
	Phosphorus	ppm	ASTM D5185(m)	50 330	327		
	Zinc	ppm	ASTM D5185(m)	430	347		
	Sulfur	ppm	ASTM D5185(III)	760	893		
	Visc @ 40°C	ppm cSt	ASTM D5165(III) ASTM D7279(m)	46.4	693 44.8		
	VISC @ 40 C	COL	70 I IVI D1213(III)	40.4	44.0		





CALA ISO 17025:2017 Accredited Laboratory

Report Id: RONVAU [WCAMIS] 02557870 (Generated: 01/16/2024 16:35:00) Rev: 1

Laboratory Sample No. Lab Number **Unique Number** 

: LH0261691 : 02557870 : 5578910

Recieved Diagnosed

: 16 May 2023 : 16 May 2023

Diagnostician : Kevin Marson Test Package : MOB 1 ( Additional Tests: PQ, PrtCount )

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 RONI/IRON SHORE EXCAVATING LTD. 100 MACINTOSH BLVD VAUGHAN, ON CA L4K 4P3 Contact: Service Team

To discuss this sample report, contact Customer Service at 1-800-268-2131. 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.

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F: