

Machine Id  
**REGIONAL HOSE N13 CELL D HYD1**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX AW 32 (50 GAL)**

**RECOMMENDATION**

We advise that you check for visible metal particles in the oil. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0076509</b>	PC0057642	PC0022842
Sample Date		Client Info		<b>03 Jan 2024</b>	16 Dec 2022	27 Feb 2022
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ATTENTION

**WEAR**

Light concentration of visible metal present.

Iron	ppm	ASTM D5185(m)	>30	<b>2</b>	2	2
Chromium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>25	<b>5</b>	6	6
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>▲ VLITE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

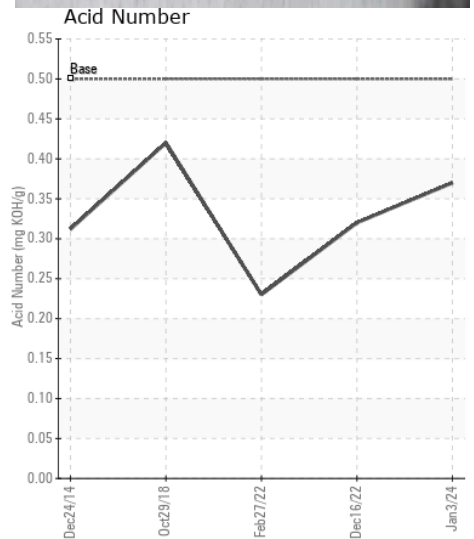
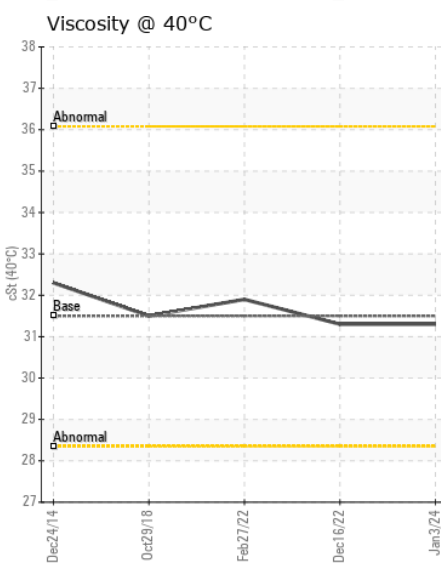
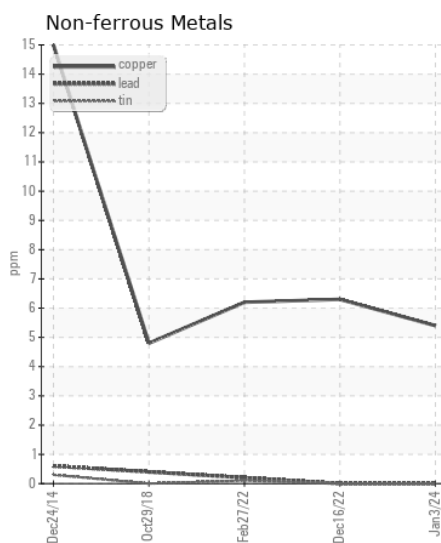
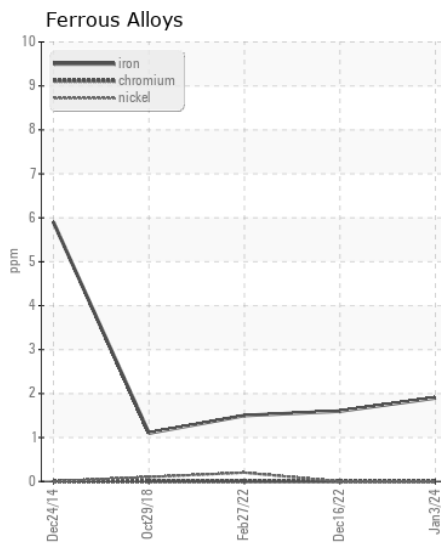
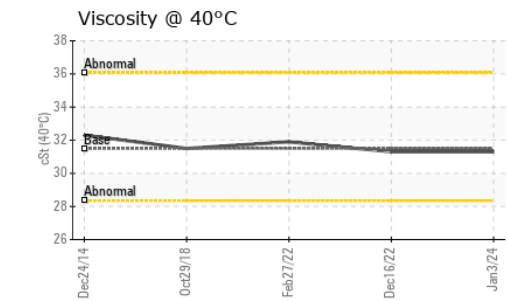
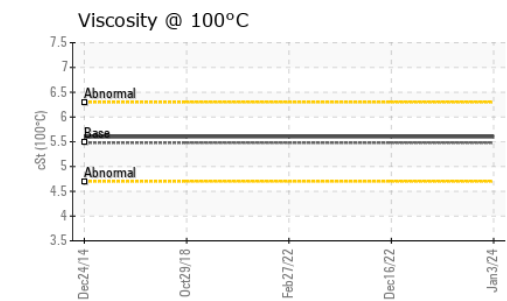
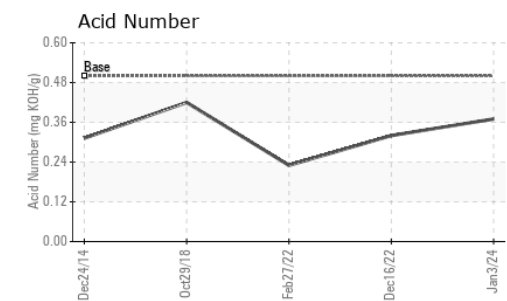
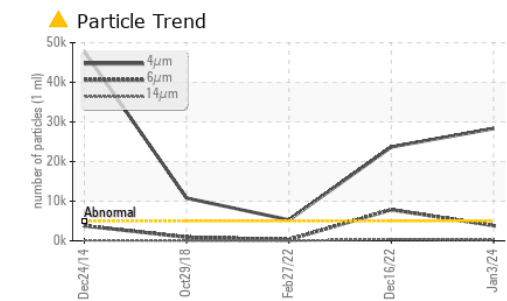
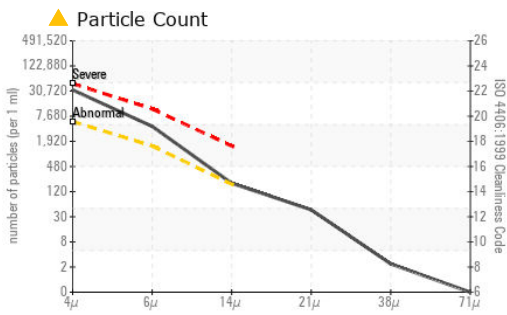
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>0</b>	0	0
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 28341</b>	▲ 23688	▲ 5277
Particles >6µm		ASTM D7647	>1300	<b>▲ 3832</b>	▲ 7869	288
Particles >14µm		ASTM D7647	>160	<b>▲ 168</b>	▲ 367	18
Particles >21µm		ASTM D7647	>40	<b>39</b>	27	5
Particles >38µm		ASTM D7647	>10	<b>2</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 22/19/15</b>	▲ 22/20/16	▲ 20/15/11
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Boron	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185(m)	50	<b>47</b>	49	47
Phosphorus	ppm	ASTM D5185(m)	330	<b>325</b>	363	332
Zinc	ppm	ASTM D5185(m)	430	<b>393</b>	399	409
Sulfur	ppm	ASTM D5185(m)	760	<b>717</b>	744	731
Acid Number (AN)	mg KOH/g	ASTM D974*	0.50	<b>0.37</b>	0.32	0.23
Visc @ 40°C	cSt	ASTM D7279(m)	31.5	<b>31.3</b>	31.3	31.9
Visc @ 100°C	cSt	ASTM D7279(m)	5.48	<b>5.6</b>	5.6	5.6
Viscosity Index (VI)	Scale	ASTM D2270*	110	<b>118</b>	118	114



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **CAMTAC MFG (division of Linamar)**  
**Sample No.** : PC0076509 **Received** : 09 Jan 2024 148 ARROW RD  
**Lab Number** : 02607494 **Tested** : 11 Jan 2024 GUELPH, ON  
**Unique Number** : 5708580 **Diagnosed** : 11 Jan 2024 - Kevin Marson CA N1K 1T4  
**Test Package** : IND 2 ( Additional Tests: Bottom, BottomAnalysis, FilterPatch, KV100, PrtFilter, TAN Man Contact: Mark Rudden  
 mark.rudden@linamar.com

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.

T:  
F: