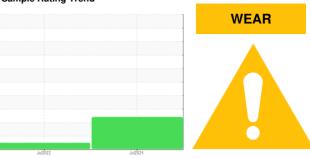


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

SILO #3 (S/N 233027)

Circulating Hydraulic System

PETRO CANADA HYDREX AW 46 (--- GAL)

DIAGNOSIS

Recommendation

The component was not specified, however we determined the component was a hydraulic system based on the type of fluid used. Please specify component type with your next sample. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

Copper ppm levels are abnormal. Lead ppm levels are noted. Oil cooler core leaching or motor piston wear is indicated.

Contamination

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

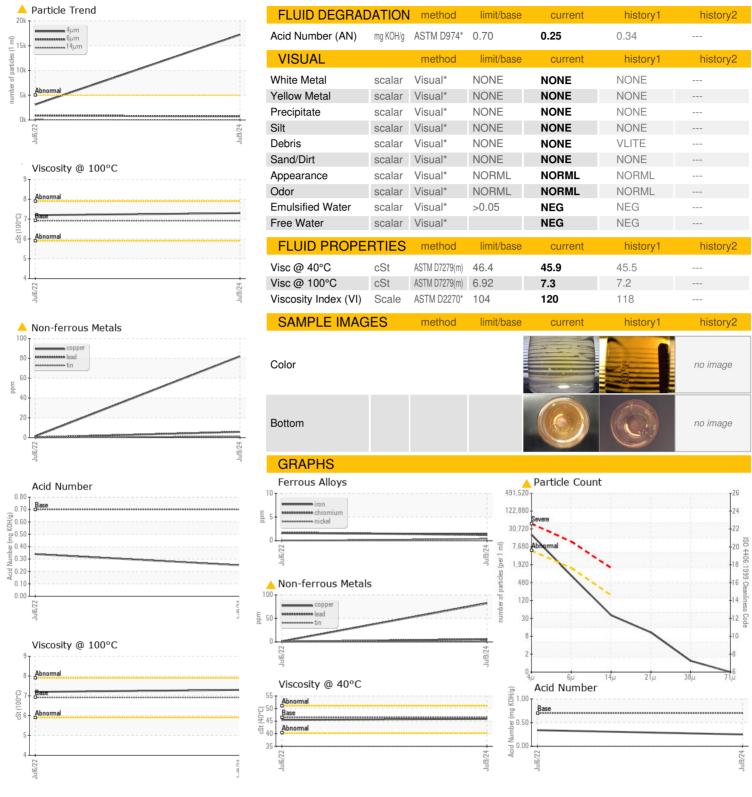
Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION method limit/base current history1 history2				Jul2022	Jul2024	,	
Sample Number Client Info PC0058413 PC0058229 Sample Date Client Info 09 Jul 2024 06 Jul 2022 Machine Age hrs Client Info 0 0 Oil Age hrs Client Info 0 0 Oil Changed Client Info Not Changd Not Changd Sample Status method Imitibase current history1 history2 Water WC Method >0.05 NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 5686m >20 1 2 Chromium ppm ASTM 5686m >20 1 2 Chromium ppm ASTM 5686m >20 1 2 Chromium ppm ASTM 5686m >20 1 1 Irianium <t< th=""><th>CAMPI E INICOD</th><th>MATION</th><th>l mothod</th><th>limit/baco</th><th>ourront</th><th>history1</th><th>history?</th></t<>	CAMPI E INICOD	MATION	l mothod	limit/baco	ourront	history1	history?
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Oil Age hrs Client Info Not Changd Not Changd							
Oil Changed Sample Status Contamination Not Changd ABNORMAL Not Changd ABNORMAL							
Sample Status	•	hrs			-		
CONTAMINATION method limit/base current history1 history2			Client Info			Ü	
Water WC Method >0.05 NEG NEG	·				ABNORMAL	NORMAL	
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Chromium ppm ASTM D5185(m) >20 1 2 Nickel ppm ASTM D5185(m) 20 <1 0 Titanium ppm ASTM D5185(m) 0 0 Silver ppm ASTM D5185(m) >20 <1 0 Aluminum ppm ASTM D5185(m) >20 6 <1 Lead ppm ASTM D5185(m) >20 6 <1 Copper ppm ASTM D5185(m) >20 1 0 Antimory ppm ASTM D5185(m) >20 1 0 Vanadium ppm ASTM D5185(m) 0 0 Vanadium ppm ASTM D5185(m) 0 0 Beryllium ppm ASTM D5185(m) 0 0 Beryllium ppm ASTM D5185(m) 0 0 Barium<	WEAR METAL	S	method	limit/base	current	history1	history2
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Titanium	Chromium	ppm	ASTM D5185(m)	>20	1	2	
Silver	Nickel	ppm	ASTM D5185(m)	>20	<1	0	
Aluminum	Titanium	ppm	ASTM D5185(m)		0	0	
Lead ppm ASTM D5185(m) >20 6 <1	Silver	ppm	ASTM D5185(m)		0	0	
Copper ppm ASTM D5185(m) >20 482 1 Tin ppm ASTM D5185(m) >20 1 0 Antimony ppm ASTM D5185(m) 0 0 Vanadium ppm ASTM D5185(m) 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 Boron ppm ASTM D5185(m) 0 0 0 Barium ppm ASTM D5185(m) 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) 0 0 0 Galcium ppm ASTM D5185(m) 50 43 48 Phosphorus ppm ASTM D5185(m) 30 301 322	Aluminum	ppm	ASTM D5185(m)	>20	<1	0	
Tin ppm ASTM D5185(m) >20 1 0 Antimony ppm ASTM D5185(m) 0 0 Vanadium ppm ASTM D5185(m) 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 0 0 Barium ppm ASTM D5185(m) 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) 0 0 0 Calcium ppm ASTM D5185(m) 50 43 48 Phosphorus ppm ASTM D5185(m) 30 357 401 <th>Lead</th> <th>ppm</th> <th>ASTM D5185(m)</th> <th>>20</th> <th>6</th> <th><1</th> <th></th>	Lead	ppm	ASTM D5185(m)	>20	6	<1	
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Manganese ppm ASTM D5185(m) 0 0 Magnesium ppm ASTM D5185(m) 0 0 <1 Calcium ppm ASTM D5185(m) 50 43 48 Phosphorus ppm ASTM D5185(m) 330 301 322 Zinc ppm ASTM D5185(m) 430 357 401 Sulfur ppm ASTM D5185(m) 760 732 764 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 <1 Sodium ppm ASTM D5185(m) >20 0 0 Potassium ppm ASTM D5185(m) >20 0 0 FLUID CLEANLINESS method limit/base current		ppm	ASTM D5185(m)	0	0	0	
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Calcium ppm ASTM D5185(m) 50 43 48 Phosphorus ppm ASTM D5185(m) 330 301 322 Zinc ppm ASTM D5185(m) 430 357 401 Sulfur ppm ASTM D5185(m) 760 732 764 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 <1 Sodium ppm ASTM D5185(m) >15 0 <1 Sodium ppm ASTM D5185(m) >20 0 <1 Potassium ppm ASTM D5185(m) >20 0 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm	Boron Barium	ppm	ASTM D5185(m)	0	0	0	
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Zinc ppm ASTM D5185(m) 430 357 401 Sulfur ppm ASTM D5185(m) 760 732 764 Lithium ppm ASTM D5185(m) <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 <1 Sodium ppm ASTM D5185(m) >20 0 <1 Sodium ppm ASTM D5185(m) >20 0 <1 Potassium ppm ASTM D5185(m) >20 0 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 17205 3102 Particles >6μm ASTM D7647 >160 34 60 Particles >21μm ASTM D7647 >40 9 12	Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0	0 0 0	0 0 0	
Sulfur ppm ASTM D5185(m) 760 732 764 Lithium ppm ASTM D5185(m) <1	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0	0 0 0	0 0 0 <1	
Lithium ppm ASTM D5185(m) <1	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 50	0 0 0 0 43	0 0 0 <1 48	
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 <1 Sodium ppm ASTM D5185(m) 0 <1 Potassium ppm ASTM D5185(m) >20 0 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >5000 17205 3102 Particles >6μm ASTM D7647 >1300 727 898 Particles >14μm ASTM D7647 >160 34 60 Particles >21μm ASTM D7647 >40 9 12 Particles >38μm ASTM D7647 >10 1 1 Particles >71μm ASTM D7647 >3 0 0	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 50 330	0 0 0 0 43 301	0 0 0 <1 48 322	
Silicon ppm ASTM D5185(m) >15 0 <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 50 330 430	0 0 0 0 43 301 357	0 0 0 <1 48 322 401	
Sodium ppm ASTM D5185(m) 0 <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 50 330 430 760	0 0 0 0 43 301 357 732	0 0 0 <1 48 322 401 764	
Sodium ppm ASTM D5185(m) 0 <1	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 50 330 430 760	0 0 0 0 43 301 357 732	0 0 0 <1 48 322 401 764	
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Particles >4μm ASTM D7647 >5000 ▲ 17205 3102 Particles >6μm ASTM D7647 >1300 727 898 Particles >14μm ASTM D7647 >160 34 60 Particles >21μm ASTM D7647 >40 9 12 Particles >38μm ASTM D7647 >10 1 1 Particles >71μm ASTM D7647 >3 0 0	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 50 330 430 760	0 0 0 0 43 301 357 732 <1 current	0 0 0 <1 48 322 401 764 <1 history1	 history2
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Particles >71μm ASTM D7647 >3 0	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) MASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647	0 0 0 0 50 330 430 760 limit/base >15 >20 limit/base >5000 >1300 >160	0 0 0 43 301 357 732 <1 current 0 0 0 current ▲ 17205 727 34	0 0 0 <1 48 322 401 764 <1 <1 <1 <1 0 history1 3102 898 60	history2 history2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) MASTM D5185(m) MASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647	0 0 0 0 50 330 430 760 limit/base >15 >20 limit/base >5000 >1300 >160 >40	0 0 0 43 301 357 732 <1 current 0 0 0 current ▲ 17205 727 34 9	0 0 0 <1 48 322 401 764 <1 history1 <1 <1 0 history1 3102 898 60 12	history2 history2
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) MASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 0 0 0 50 330 430 760 limit/base >15 >20 limit/base >5000 >1300 >160 >40 >10	0 0 0 43 301 357 732 <1 current 0 0 0 current ▲ 17205 727 34 9 1	0 0 0 41 48 322 401 764 <1 history1 <1 0 history1 3102 898 60 12 1	history2



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number

: PC0058413 : 02647806 Unique Number : 5813358

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ONTARIO CLEAN WATER AGENCY-SOUTH PEEL FACILITIES Received : 15 Jul 2024

Tested : 16 Jul 2024 Diagnosed

: 16 Jul 2024 - Kevin Marson Test Package : IND 2 (Additional Tests: KV100, VI)

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.

MISSISSAUGA, ON CA L5E 1E9 Contact: Angelo Magnifico amagnifico@ocwa.com T: (905)274-1223

1300 LAKESHORE RD

F: (905)274-2076