

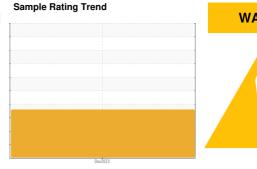
## **PROBLEM SUMMARY**

# Area [126588] NOVAMAX

Component

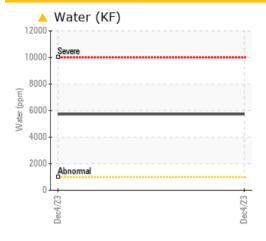
Circulating Hydraulic System

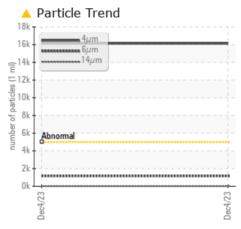
PETRO CANADA HYDREX AW 32 (10 GAL)

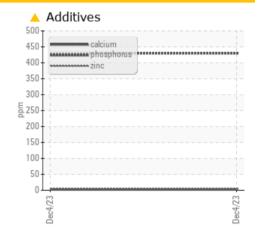




## **COMPONENT CONDITION SUMMARY**







## RECOMMENDATION

The component was not specified so we have determined that this is a hydraulic system based on the fluid type in use. Please specify the correct component type on your next sample. Check seals and/or filters for points of contaminant entry. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

PROBLEMATIC	TEST RESULTS
-------------	--------------

Sample Status				ABNORMAL	 
Calcium	ppm	ASTM D5185(m)	50	<u>^</u> 2	 
Zinc	ppm	ASTM D5185(m)	430	<u> </u>	 
Sulfur	ppm	ASTM D5185(m)	760	<b>457</b>	 
Water	%	ASTM D6304*	>0.1	<b>0.572</b>	 
ppm Water	ppm	ASTM D6304*	>1000	<u> </u>	 
Particles >4µm		ASTM D7647	>5000	<b>16135</b>	 
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	 
<b>Emulsified Water</b>	scalar	Visual*	>0.1	<b>1</b> %	 

Customer Id: GRA685CAM **Sample No.:** WC0869271 Lab Number: 02601840 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.		
Change Filter			?	We recommend you service the filters on this component.		
Resample			?	We recommend an early resample to monitor this condition.		
Alert			?	The component was not specified so we have determined that this is a hydraulic system based on the fluid type in use. Please specify the correct component type on your next sample.		
Information Required			?	Please specify the component make and model with your next sample.		
Check Fluid Source			?	Confirm the source of the lubricant being utilized for top-up/fill.		
Check Water Access			?	We advise that you check for the source of water entry.		
Check Seals			?	Check seals and/or filters for points of contaminant entry.		

## HISTORICAL DIAGNOSIS

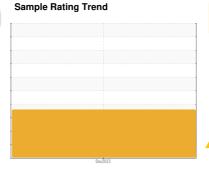


## **OIL ANALYSIS REPORT**

# [126588] NOVAMAX

**Circulating Hydraulic System** 

PETRO CANADA HYDREX AW 32 (10 GAL)





DIAGNOSIS	)
-----------	---

#### Recommendation

The component was not specified so we have determined that this is a hydraulic system based on the fluid type in use. Please specify the correct component type on your next sample. Check seals and/or filters for points of contaminant entry. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

### Wear

All component wear rates are normal.

### Contamination

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

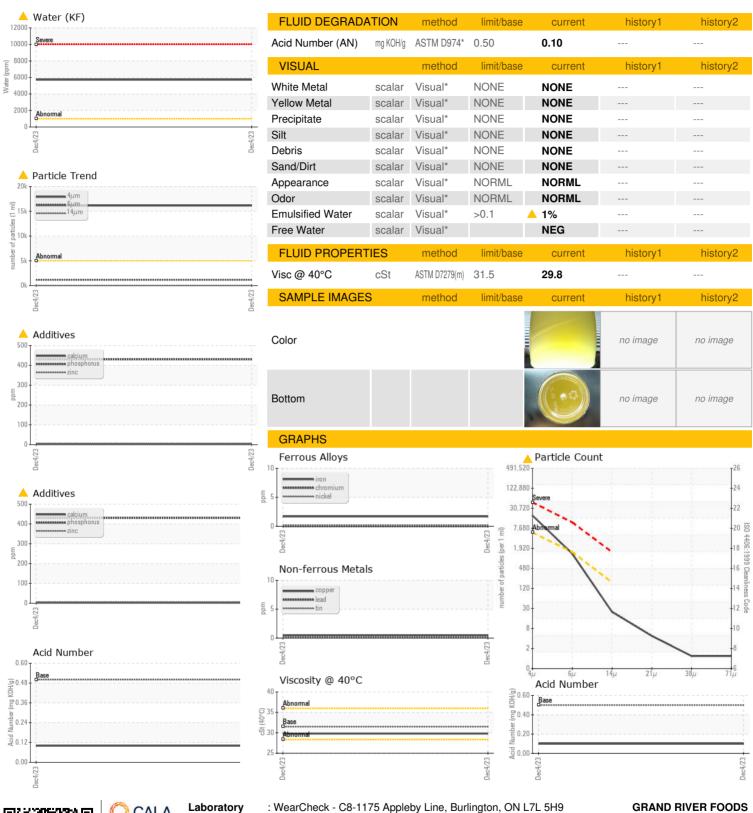
## Fluid Condition

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

)				Dec2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0869271		
Sample Date		Client Info		04 Dec 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	2		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)	>10	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>10	<1		
Lead	ppm	ASTM D5185(m)	>10	<1		
Copper	ppm	ASTM D5185(m)	>75	<1		
Tin	ppm	ASTM D5185(m)	>10	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1		
Barium	ppm	ASTM D5185(m)	0	<1		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)	0	0		
Magnesium	ppm	ASTM D5185(m)	0	0		
Calcium	ppm	ASTM D5185(m)	50	<u>^</u> 2		
Phosphorus	ppm	ASTM D5185(m)	330	430		
Zinc	ppm	ASTM D5185(m)	430	<u>^</u> 5		
Sulfur	ppm	ASTM D5185(m)	760	<b>457</b>		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	2		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	0		
Water	%	ASTM D6304*	>0.1	<u> </u>		
ppm Water	ppm	ASTM D6304*	>1000	<u>▲</u> 5722		
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	<b>16135</b>		
Particles >6µm		ASTM D7647	>1300	1167		
Particles >14μm		ASTM D7647	>160	21		
Particles >21µm		ASTM D7647	>40	4		
Particles >38μm		ASTM D7647	>10	1		
Particles >71μm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>21/17/12</b>		



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited

Laboratory

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

: WC0869271

Received : 02601840

Diagnosed Diagnostician : Kevin Marson

: 08 Dec 2023

: 11 Dec 2023

: 5694925 Test Package : IND 2 (Additional Tests: KF)

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.

190 VONDRAU DRIVE CAMBRIDGE, ON

**CA N3E 1B8** Contact: Dan Jean-Marie djeanmarie@grandriverfoods.com T: (519)653-3577

F: