

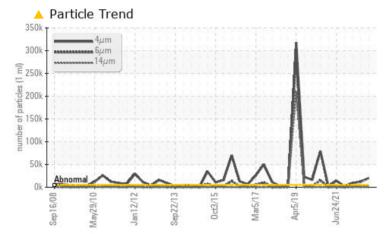
PROBLEM SUMMARY

Area **1460** Machine Id **1460-5673-4001 - HG Ni LAROX #1 HYDRAULIC POWER PACK** Component

Hydraulic System

PETRO CANADA HYDREX AW 46 (400 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS						
Sample Status		ABNORMAL	ABNORMAL	ATTENTION		
Particles >4µm	ASTM D7647 >5000	<u> </u>	🔺 11919	4 9535		
Particles >6µm	ASTM D7647 >1300	A 3747	4 2497	2 032		
Oil Cleanliness	ISO 4406 (c) >19/17	7/14 🔺 22/19/13	A 21/18/14	2 0/18/13		

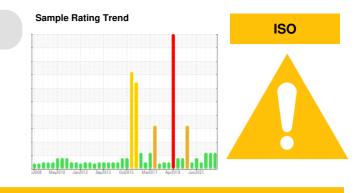
Customer Id: INCVOS Sample No.: PC0070107 Lab Number: 02590272 Test Package: IND 2



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 <u>gloria.gonzalez@wearcheck.com</u>



RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component.		
Resample			?	We recommend an early resample to monitor this condition.		

HISTORICAL DIAGNOSIS



09 Feb 2023 Diag: Wes Davis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. Oil Cleanliness are abnormally high. Particles >4 μ m are abnormally high. Particles >6 μ m are notably high. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



08 Sep 2022 Diag: Wes Davis



We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

20 Oct 2021 Diag: Wes Davis





Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report







OIL ANALYSIS REPORT

Area **1460** 1460-5673-4001 - HG NI LAROX #1 HYDRAULIC POWER PACK Component

Hydraulic System

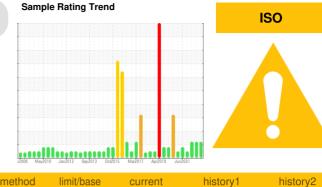
DIAGNOSIS

Contamination

Fluid Condition

Wear

PETRO CANADA HYDREX AW 46 (400 LTR)



PC0040349

PC0040268

09 Feb 2023 08 Sep 2022

SAMPLE INFORMATION method PC0070107 Client Info Recommendation Sample Number We recommend you service the filters on this Sample Date Client Info 11 Sep 2023 component. We recommend an early resample to Machine Age Client Info 0 dave monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sample Dale		Client Into		11 Sep 2023	091602023	00 Seb 2022
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>40	<1	1	<1
Chromium	ppm	ASTM D5185(m)	>4	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>4	0	0	0
Lead	ppm	ASTM D5185(m)	>10	0	0	0
Copper	ppm	ASTM D5185(m)	>60	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	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	<1	<1	<1
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	0	0	0	0
Calcium	ppm	ASTM D5185(m)	50	52	50	46
Phosphorus	ppm	ASTM D5185(m)	330	326	361	349
Zinc	ppm	ASTM D5185(m)	430	425	426	402
Sulfur	ppm	ASTM D5185(m)	760	729	767	746
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	0	0	0
Sodium	ppm	ASTM D5185(m)		<1	0	0
Potassium	ppm	ASTM D5185(m)	>20	0	0	0
FLUID CLEAN	LINES	S method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	🔺 11919	▲ 9535
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u> </u>	<u> </u>
Particles >14µm		ASTM D7647	>160	45	107	56
Particles >21µm		ASTM D7647	>40	5	23	10
Particles >38µm		ASTM D7647	>10	1	1	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 22/19/13	2 1/18/14	▲ 20/18/13
FLUID DEGRA		M method	limit/base	current	history1	history2
			0.70	0.40	0.05	0.40

Acid Number (AN)

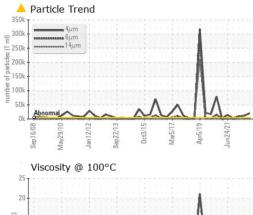
mg KOH/g ASTM D974* 0.70

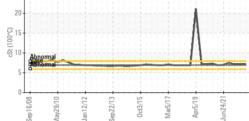
0.35 0.49 0.46 Contact/Location: Robert Feltham - INCVOS

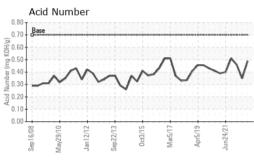
Report Id: INCVOS [WCAMIS] 02590272 (Generated: 10/20/2023 09:46:30) Rev: 1



OIL ANALYSIS REPORT







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cSt (100°C)

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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	45.6	46.0	45.6
Visc @ 100°C	cSt	ASTM D7279(m)	6.92	7.2	7.1	7.1
Viscosity Index (VI)	Scale	ASTM D2270*	104	118	113	114
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color						

Bottom

