OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id
SALTONS HINTONWOOD
Component
Hydraulic System
Fluid
PETRO CANADA HYDREX AW 68 (13750 LTR)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates.

Wear

All component wear rates are normal.

▲ Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC**	---	---
Sample Date		Client Info		**06 Dec 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ATTENTION**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	**9**	---	---
Chromium	ppm	ASTM D5185(m)	>20	**2**	---	---
Nickel	ppm	ASTM D5185(m)	>20	**<1**	---	---
Titanium	ppm	ASTM D5185(m)		**0**	---	---
Silver	ppm	ASTM D5185(m)		**<1**	---	---
Aluminum	ppm	ASTM D5185(m)	>20	**0**	---	---
Lead	ppm	ASTM D5185(m)	>20	**<1**	---	---
Copper	ppm	ASTM D5185(m)	>20	**1**	---	---
Tin	ppm	ASTM D5185(m)	>20	**0**	---	---
Antimony	ppm	ASTM D5185(m)		**0**	---	---
Vanadium	ppm	ASTM D5185(m)		**0**	---	---
Beryllium	ppm	ASTM D5185(m)		**0**	---	---
Cadmium	ppm	ASTM D5185(m)		**0**	---	---

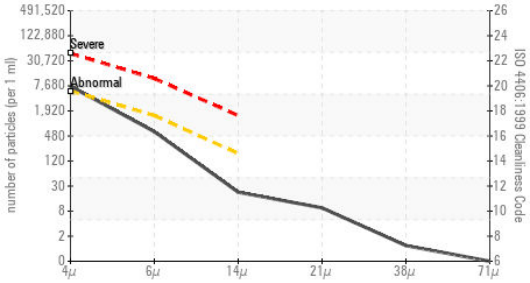
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	**<1**	---	---
Barium	ppm	ASTM D5185(m)	0	**<1**	---	---
Molybdenum	ppm	ASTM D5185(m)	0	**0**	---	---
Manganese	ppm	ASTM D5185(m)	0	**0**	---	---
Magnesium	ppm	ASTM D5185(m)	0	**<1**	---	---
Calcium	ppm	ASTM D5185(m)	50	**36**	---	---
Phosphorus	ppm	ASTM D5185(m)	330	**329**	---	---
Zinc	ppm	ASTM D5185(m)	430	**425**	---	---
Sulfur	ppm	ASTM D5185(m)	760	**737**	---	---
Lithium	ppm	ASTM D5185(m)		**<1**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	**<1**	---	---
Sodium	ppm	ASTM D5185(m)		**3**	---	---
Potassium	ppm	ASTM D5185(m)	>20	**0**	---	---
Water	%	ASTM D6304*	>0.05	**0.008**	---	---
ppm Water	ppm	ASTM D6304*	>500	**88**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **6539**	---	---
Particles >6µm		ASTM D7647	>1300	**535**	---	---
Particles >14µm		ASTM D7647	>160	**19**	---	---
Particles >21µm		ASTM D7647	>40	**8**	---	---
Particles >38µm		ASTM D7647	>10	**1**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **20/16/11**	---	---

OIL ANALYSIS REPORT

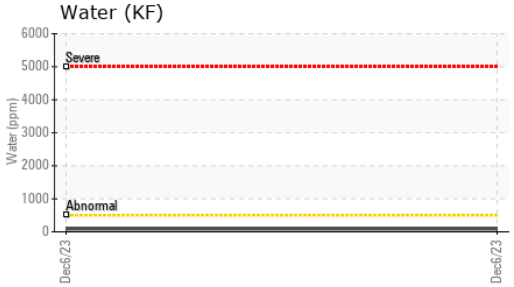
Particle Count



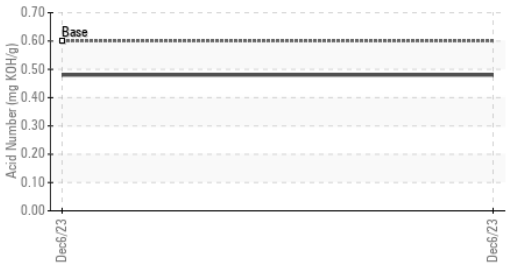
Particle Trend

Flash Point (°C)

Water (KF)



Acid Number



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	**0.48**	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	**NONE**	---	---
Yellow Metal	scalar	Visual*	NONE	**NONE**	---	---
Precipitate	scalar	Visual*	NONE	**NONE**	---	---
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**	---	---
Emulsified Water	scalar	Visual*	>0.05	**NEG**	---	---
Free Water	scalar	Visual*		**NEG**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	67.4	**62.3**	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.9	**8.9**	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	105	**118**	---	---
COC Flash Point	°C	ASTM D92*	242	**264**	---	---

SEDIMENT		method	limit/base	current	history1	history2
Pentane Insolubles	%	ASTM D893(m)*		**0.142**	---	---

SIMULATED DISTILLATON (GCD)		method	limit/base	current	history1	history2
(GCD) % < 335°C	°C	ASTM D2887*		**1.10**	---	---
(GCD) Initial Boiling Point	°C	ASTM D2887*		**99.3**	---	---
(GCD) 5% Distillation Point	°C	ASTM D2887*		**407.5**	---	---
(GCD) 10% Distillation Point	°C	ASTM D2887*		**427.8**	---	---
(GCD) 20% Distillation Point	°C	ASTM D2887*		**451.0**	---	---
(GCD) 30% Distillation Point	°C	ASTM D2887*		**466.7**	---	---
(GCD) 40% Distillation Point	°C	ASTM D2887*		**479.8**	---	---
(GCD) 50% Distillation Point	°C	ASTM D2887*		**491.7**	---	---
(GCD) 60% Distillation Point	°C	ASTM D2887*		**503.4**	---	---
(GCD) 70% Distillation Point	°C	ASTM D2887*		**515.7**	---	---
(GCD) 80% Distillation Point	°C	ASTM D2887*		**528.4**	---	---
(GCD) 90% Distillation Point	°C	ASTM D2887*		**544.1**	---	---
(GCD) FBP% Distillation Point	°C	ASTM D2887*		**592.2**	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **WEST FRASER, HINTON WOOD PROD.**
Sample No. : PC **Recieved** : 19 Dec 2023 99 WEST RIVER ROAD
Lab Number : 02604269 **Diagnosed** : 08 Jan 2024 HINTON, AB
Unique Number : 5697354 **Diagnostician** : Kevin Marson CA T7V 1Y7
Test Package : IND 2 (Additional Tests: COC Flash, GC-PercFuel, GCD, KF, KV100, PntInsol, TAN Man, Vb) Contact: Jeannot Desaulniers

To discuss this sample report, contact Customer Service at 1-800-268-2131. jeannot.desaulniers@westfraser.com
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (780)865-8973
Validity of results and interpretation are based on the sample and information as supplied. F: (780)865-8901