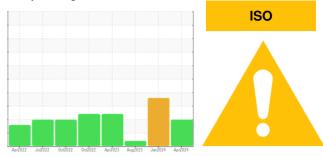


OIL ANALYSIS REPORT

Sample Rating Trend

SAMPLE INFORMATION method limit/base



current

history1

history2

Machine Id

15 ROLL STAND

Component Hydraulic System Fluid

PETRO CANADA HYDREX AW 68 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

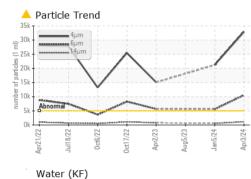
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

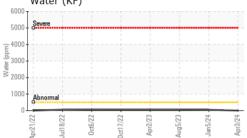
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO60001696	TO60001687	TO60000490
Sample Date		Client Info		03 Apr 2024	05 Jan 2024	05 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	<1
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	2	3	2
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	29	44	71
Calcium	ppm	ASTM D5185m	50	105	61	82
Phosphorus	ppm	ASTM D5185m	330	297	291	311
Zinc	ppm	ASTM D5185m	430	388	365	389
Sulfur	ppm	ASTM D5185m	760	1331	1253	1910
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	4 1	<1
Sodium	ppm	ASTM D5185m		<1	0	2
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water	%	ASTM D6304	>0.05	0.00	0.005	0.006
ppm Water	ppm	ASTM D6304	>500	0	50	69.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 32893	A 21219	
Particles >6µm		ASTM D7647	>1300	<u> </u>	▲ 5564	
Particles >14µm		ASTM D7647	>160	<u> </u>	6 2	
Particles >21µm		ASTM D7647	>40	<u> </u>	1 89	
Particles >38µm		ASTM D7647	>10	10	8	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 22/21/17	▲ 22/20/16	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.60	0.25	0.31	0.36
. ,						

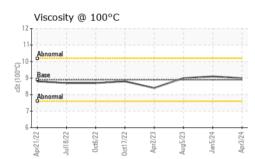
Contact/Location: ADAM BARTEL - PAPHAS Page 1 of 2

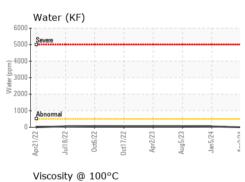


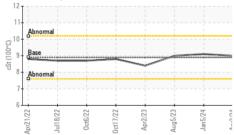
OIL ANALYSIS REPORT





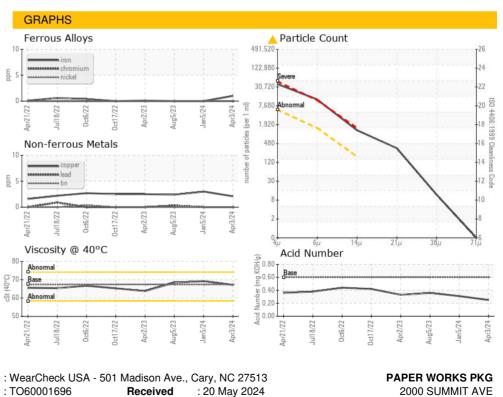






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	🔺 MODER
Sand/Dirt	scalar	*Visual	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67.4	67.2	69.2	68.4
Visc @ 100°C	cSt	ASTM D445	8.9	9.0	9.1	9
Viscosity Index (VI)	Scale	ASTM D2270	105	108	106	105
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				a.		e e e e e e e e e e e e e e e e e e e

Bottom

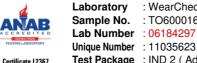


: 21 May 2024

: 22 May 2024 - Jonathan Hester

2000 SUMMIT AVE HASTINGS, NE US 68902 Contact: ADAM BARTEL adam.bartel@onepapers.com T: 22012) F:





Centificate 12367 Test Package : IND 2 (Additional Tests: KF, KV100, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Tested

Diagnosed

Report Id: PAPHAS [WUSCAR] 06184297 (Generated: 05/22/2024 15:57:59) Rev: 1

Contact/Location: ADAM BARTEL - PAPHAS