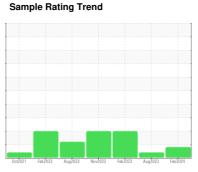


OIL ANALYSIS REPORT

Slitter [Slitter] 410020-ENTRY COIL CAR

Hydraulic System

PETRO CANADA HYDREX AW 46 (--- GAL)





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

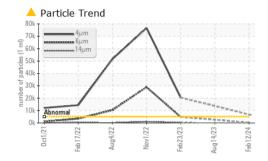
Fluid Condition

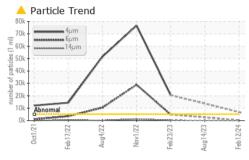
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

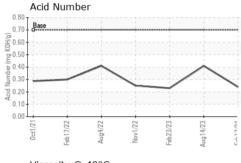
		Oct2021	Feb2022 Aug2022	Nov2022 Feb2023 Aug2023	Feb2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0107652	PCA0095416	PCA0089520
Sample Date		Client Info		12 Feb 2024	14 Aug 2023	23 Feb 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	0	0
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm		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	0	0
Magnesium	ppm	ASTM D5185m	0	1	1	<1
Calcium	ppm	ASTM D5185m	50	49	53	48
Phosphorus	ppm	ASTM D5185m	330	292	344	330
Zinc	ppm	ASTM D5185m	430	419	441	437
Sulfur	ppm	ASTM D5185m	760	792	962	977
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m		2	0	0
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEAN	LINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 6839		<u>^</u> 20568
Particles >6μm		ASTM D7647	>1300	262		▲ 4873
Particles >14μm		ASTM D7647	>160	12		▲ 301
Particles >21µm		ASTM D7647	>40	3		4 90
Particles >38µm		ASTM D7647	>10	0		2
Particles >71μm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	2 0/15/11		<u>22/19/15</u>
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	0.24	0.41	0.23

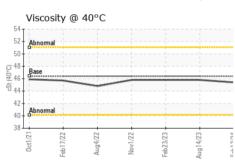


OIL ANALYSIS REPORT









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	▲ MODER	LIGHT
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	historv1	history2

I LOID I HOI L	ITTLO					
Visc @ 40°C	cSt	ASTM D445	46.4	45.4	45.8	45.8

SAMPLE IMAGES

Color

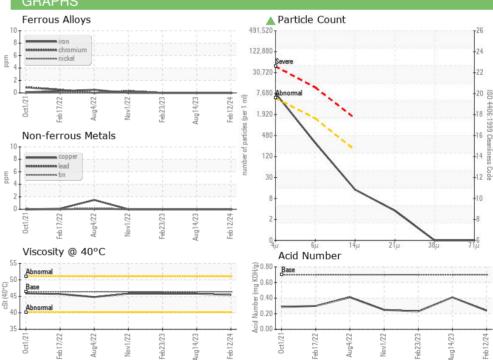
Bottom















Certificate L2367

Laboratory Sample No. Lab Number : 06088128 Unique Number: 10875573

Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0107652

Tested Diagnosed

Received : 13 Feb 2024 : 15 Feb 2024

: 15 Feb 2024 - Don Baldridge

SDI - Steel DynamicsInc. - Heartland

455 West Industrial Drive

Terre Haute, IN US 47802

Contact: BRAD ELLIS

brad.ellis@steeldynamics.com T:

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)

F: