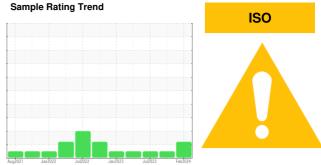


# **OIL ANALYSIS REPORT**

# Galv Line [Galv Line] 615030-ENTRY COIL CAR 1

**Hydraulic System** 

PETRO CANADA HYDREX AW 46 (--- GAL)



## **DIAGNOSIS**

#### Recommendation

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

All component wear rates are normal.

## Contamination

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

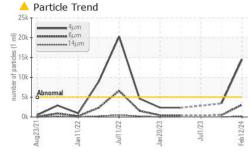
#### **Fluid Condition**

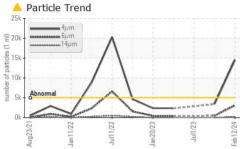
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

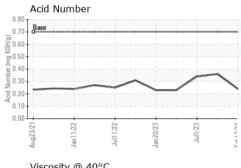
.)		Aug2021	Jan 2022 Jul 2022	Jan2023 Jul2023	Feb 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0112993	PCA0107711	PCA0101573
Sample Date		Client Info		12 Feb 2024	25 Oct 2023	01 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	0	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	<1	<1
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	<1
Copper	ppm	ASTM D5185m	>20	<1	0	<1
Tin	ppm	ASTM D5185m	>20	<1	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	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	0	0	4	3
Calcium	ppm	ASTM D5185m	50	48	54	55
Phosphorus	ppm	ASTM D5185m	330	294	360	328
Zinc	ppm	ASTM D5185m	430	421	479	447
Sulfur	ppm	ASTM D5185m	760	806	897	1108
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	0
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water	%	ASTM D6304		NEG	NEG	NEG
FLUID CLEANL	INESS		limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	3389	
Particles >6µm		ASTM D7647	>1300	▲ 3096	461	
Particles >14µm		ASTM D7647	>160	132	18	
Particles >21µm		ASTM D7647		26	3	
Particles >38µm		ASTM D7647	>10	2	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>21/19/14</u>	19/16/11	
FLUID DEGRAD			limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	0.24	0.36	0.34

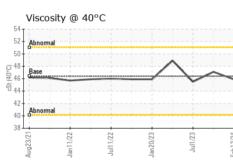


# **OIL ANALYSIS REPORT**









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	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
ELLUD DDODE	DTIES		11 11 11			

I LOID I NOI	LITTLO	memou	IIIIII Dase	Current	HISTORY	History
Visc @ 40°C	cSt	ASTM D445	46.4	45.9	47.1	45.5

SAMPLE IMAGES

limit/base

method

current

A Particle Count

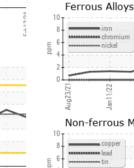
history1

history2

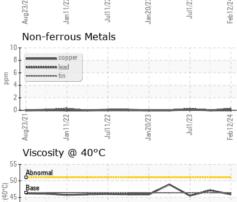
Color

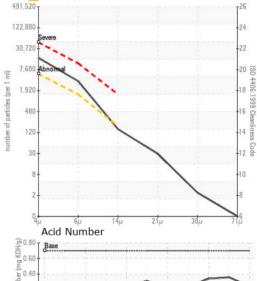
**Bottom** 

**GRAPHS** 



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Laboratory

Sample No. Lab Number : 06088126 Unique Number : 10875571

: PCA0112993

Jan 11/22

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

Jul1/23

: 13 Feb 2024 : 15 Feb 2024 Diagnosed

Feb12/24

: 15 Feb 2024 - Don Baldridge

Jan11/22

0.00 Acid

SDI - Steel DynamicsInc. - Heartland

455 West Industrial Drive Terre Haute, IN

US 47802 Contact: BRAD ELLIS

Test Package : PLANT Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

brad.ellis@steeldynamics.com T:

\* - 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)

Jul11/22

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