

OIL ANALYSIS REPORT

Galy Line [Galv Line] 670040-TEMPER MILL AUXILARY HPU

Hydraulic System

PETRO CANADA HYDREX AW 46 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

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

Aug2021 Nov2021 Feb.2022 Moy2022 Aug2022 Nov2022 Feb.2023 Moy2023 Jul2023 Nov2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0107700	PCA0101429	PCA0095439
Sample Date		Client Info		20 Nov 2023	01 Jul 2023	01 May 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	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	<1	0
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	<1
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	3	2	1
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	4	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	0
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	0	3	3	5
Calcium	ppm	ASTM D5185m	50	54	50	43
Phosphorus	ppm	ASTM D5185m	330	399	327	322
Zinc	ppm	ASTM D5185m	430	485	429	408
Sulfur	ppm	ASTM D5185m	760	1076	985	924
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	0
Sodium	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEANI	LINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1598		978
Particles >6μm		ASTM D7647	>1300	419		235
Particles >14µm		ASTM D7647	>160	27		16
Particles >21µm		ASTM D7647	>40	7		4
Particles >38µm		ASTM D7647	>10	0		0
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12		17/15/11
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	0.29	0.31	0.28



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Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: PCA0107700 : 06013969 : 10753113 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 21 Nov 2023 Received

Diagnosed : 27 Nov 2023 Diagnostician : Jonathan Hester SDI - Steel DynamicsInc. - Heartland 455 West Industrial Drive

Terre Haute, IN US 47802

Contact: BRAD ELLIS brad.ellis@steeldynamics.com

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)

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