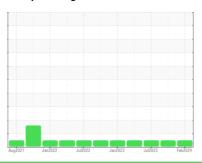


OIL ANALYSIS REPORT

Galv Line [Galv Line] 695295-DELIVERY 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

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

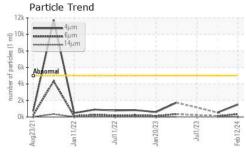
Fluid Condition

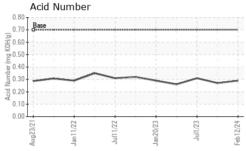
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

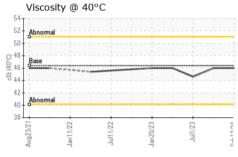
)		Aug2021	Jan2022 Jul2022	Jan2023 Jul2023	Feb 2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0112938	PCA0107725	PCA0095504
Sample Date		Client Info		12 Feb 2024	25 Oct 2023	01 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
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	<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	4	4	4
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	1	7	3
Calcium	ppm	ASTM D5185m	50	46	52	51
Phosphorus	ppm	ASTM D5185m	330	319	351	323
Zinc	ppm	ASTM D5185m	430	418	462	424
Sulfur	ppm	ASTM D5185m	760	855	915	1043
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	0
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m		2	0	<1
Water	%	ASTM D6304	>0.05	NEG	NEG	NEG
FLUID CLEANI	LINESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	1509	536	
Particles >6μm		ASTM D7647	>1300	327	114	
Particles >14µm		ASTM D7647	>160	13	9	
Particles >21µm		ASTM D7647	>40	3	3	
Particles >38μm		ASTM D7647	>10	0	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/11	16/14/10	
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.70	0.29	0.27	0.31

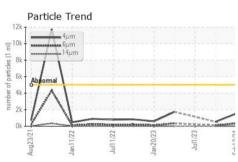


OIL ANALYSIS REPORT









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	NONE
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	ERTIES	method				history2
Visc @ 40°C	cSt	ASTM D445	46.4	46.0	46.0	44.6

AMPLE IMAGES	
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Bottom

Color

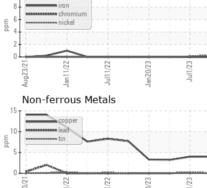
Feb12/24

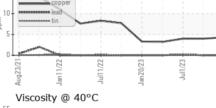
Feb12/24

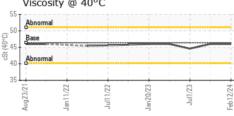
Particle Count

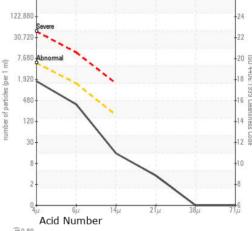
491 520











08.0 09.0 09.0 0.00 Acid



Certificate L2367

Laboratory Sample No. Lab Number : 06088124 Unique Number: 10875569

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0112938

Received **Tested** Diagnosed

: 13 Feb 2024

: 15 Feb 2024 : 15 Feb 2024 - Don Baldridge

SDI - Steel DynamicsInc. - Heartland

Contact/Location: BRAD ELLIS - SDITER

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)

Test Package : PLANT

T:

F: