

OIL ANALYSIS REPORT

Area Temper Mill [Temper Mill] 235020-HIGH PRESSURE HPU

Component **Hydraulic System**

PETRO CANADA HYDREX AW 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

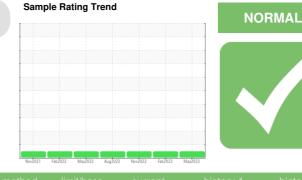
All component wear rates are normal.

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.



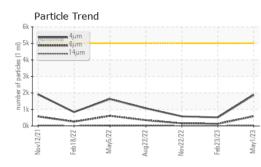
SAMPLE INFORM	ΛΑΤΙΟΝ	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0095448	PCA0089527	PCA0081729
Sample Date		Client Info		01 May 2023	23 Feb 2023	22 Nov 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>20	0	<1	<1
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	<1
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	2	2	2
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	history 1	history 2
Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m	0	0	0	1
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	0	7	6	5
Calcium	ppm	ASTM D5185m	50	57	65	65
Phosphorus	ppm	ASTM D5185m	330	321	333	306
Zinc	ppm	ASTM D5185m	430	393	419	401
Sulfur	ppm	ASTM D5185m	760	1411	1575	1491
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>15	0	<1	0
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	1
FLUID CLEANL	INESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647	>5000	1876	518	579
Particles >6µm		ASTM D7647	>1300	591	133	158
Particles >14µm		ASTM D7647	>160	37	11	11
Particles >21µm		ASTM D7647	>40	10	4	2
Particles >38µm		ASTM D7647	>10	1	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12	16/14/11	16/14/11
FLUID DEGRAD	ATION	method	limit/base	current	history 1	history 2

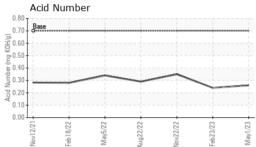
mg KOH/g ASTM D8045 0.70 0.26 0.24 Acid Number (AN)

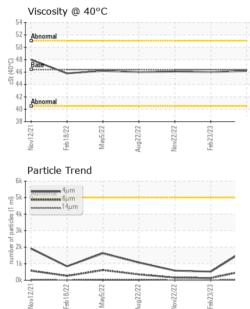
0.35



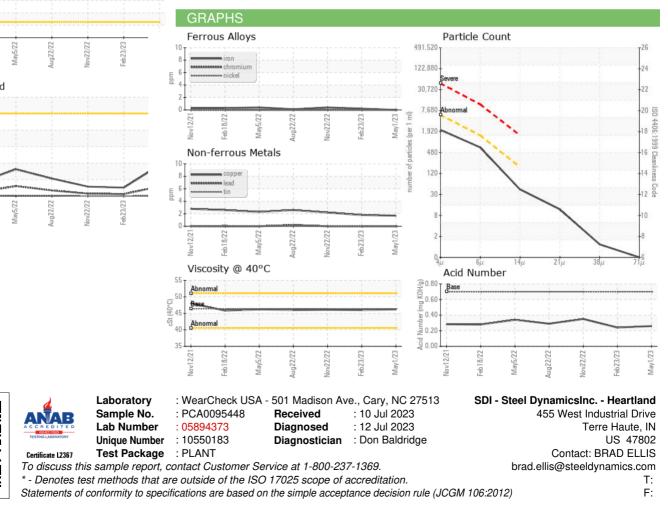
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VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	RTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46.4	46.2	46.0	46.1
SAMPLE IMAG	iES	method	limit/base	current	history 1	history 2
Color						in the second seco
Bottom						



Contact/Location: BRAD ELLIS - SDITER