

## **OIL ANALYSIS REPORT**

### Roll Shop [Roll Shop] #2 Grinder-BIG GRINDER SPINDLE mnonen

**Hydraulic System** 

PETRO CANADA HYDREX AW 32 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

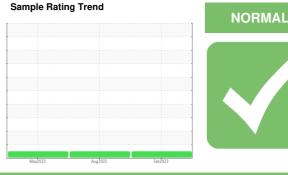
All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the fluid. 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 fluid is suitable for further service.





SAMPLE INFORMATION method PCA0065542 PCA0072982 PCA0089492 Sample Number **Client Info** 22 Aug 2022 Sample Date Client Info 01 Feb 2023 11 May 2022 0 0 Machine Age hrs Client Info 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 >20 0 3 Iron ppm ASTM D5185m <1 Chromium ASTM D5185m >20 0 0 0 ppm Nickel ppm ASTM D5185m >20 0 0 0 Titanium ASTM D5185m 0 0 0 ppm Silver ppm ASTM D5185m 0 <1 <1 Aluminum ASTM D5185m >20 0 0 ppm <1 Lead ASTM D5185m >20 <1 ppm <1 <1 2 >20 10 Copper ppm ASTM D5185m <1 Tin ppm ASTM D5185m >20 0 <1 0 Vanadium ASTM D5185m 0 0 0 ppm Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES 0 0 0 <1 Boron ppm ASTM D5185m Barium ppm ASTM D5185m 0 0 2 0 Molybdenum ASTM D5185m 0 <1 <1 ppm <1 0 0 Manganese ppm ASTM D5185m O <1 6 ASTM D5185m 0 8 16 Magnesium ppm 53 72 51 Calcium ASTM D5185m 50 ppm Phosphorus ppm ASTM D5185m 330 296 292 302 Zinc ASTM D5185m 430 404 369 321 ppm Sulfur ASTM D5185m 760 869 ppm 971 1117 CONTAMINANTS Silicon ASTM D5185m >15 0 <1 <1 ppm 0 4 Sodium ppm ASTM D5185m 0 Potassium ASTM D5185m >20 1 0 ء1 ppm NEG Water % ASTM D6304 >0.05 NEG NEG FLUID CLEANLINESS method ASTM D7647 >5000 925 890 944 Particles >4µm 252 Particles >6µm ASTM D7647 >1300 258 296 >160 27 17 Particles >14µm ASTM D7647 59 Particles >21µm ASTM D7647 >40 9 2 22 Particles >38µm ASTM D7647 >10 0 0 1 Particles >71µm ASTM D7647 >3 0 0 0 17/15/12 17/15/13 **Oil Cleanliness** ISO 4406 (c) >19/17/14 17/15/11

0.50

0.28

ASTM D8045

Acid Number (AN) ma KOH/a

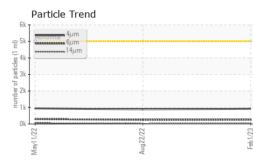
FLUID DEGRADATION

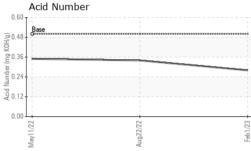
0.35

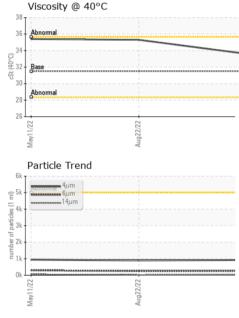
0.34



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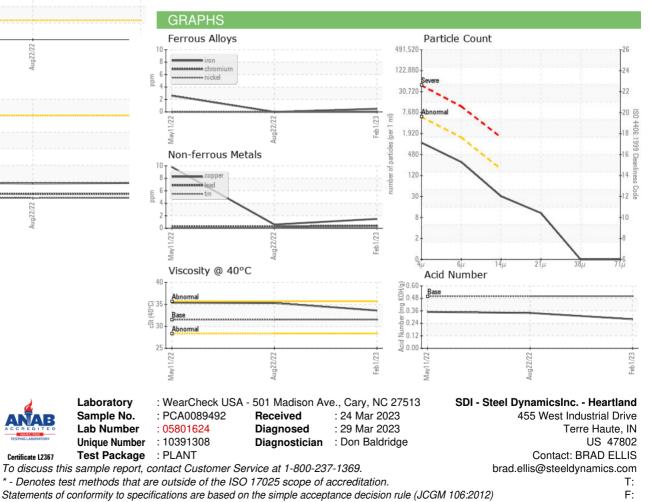






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	31.5	33.6	35.3	35.4
SAMPLE IMAG	ies	method	limit/base	current	history1	history2
Color				PER S		Rous Person Administration

Bottom



Contact/Location: BRAD ELLIS - SDITER