

monitor.

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Wear

OIL ANALYSIS REPORT

Sample Rating Trend



Component Hydraulic System

Achine Ic **BH09**

PETRO CANADA PRODURO TO-4 SAE 10W (68 GAL)

DIAGNOSIS SAMPLE INFORMATION method PCA0080146 PCA0091064 PCA0065105 Sample Number **Client Info** Recommendation The filter change at the time of sampling has been Sample Date Client Info 06 Apr 2023 19 Aug 2022 18 Mar 2022 noted. Resample at the next service interval to Machine Age hrs Client Info 6410 5803 5184 Oil Age hrs Client Info 0 0 5184 Oil Changed Not Changd Oil Added **Client Info** Not Changd All component wear rates are normal. Sample Status NORMAL ABNORMAL MARGINAL Contamination CONTAMINATION There is no indication of any contamination in the NEG oil. The amount and size of particulates present in >0.1 NEG NEG Water WC Method the system are acceptable. WEAR METALS Fluid Condition ASTM D5185m >20 33 ▲ 34 ▲ 37 Iron ppm The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in Chromium ASTM D5185m >10 ppm <1 <1 <1 0 0 Nickel ppm ASTM D5185m >10 0 Titanium ASTM D5185m ppm <1 <1 <1 Silver n 0 ppm ASTM D5185m <1 Aluminum ppm ASTM D5185m >10 4 6 7 ASTM D5185m >10 Lead <1 <1 <1 ppm 6 7 8 Copper ppm ASTM D5185m >75 Tin ASTM D5185m >10 0 0 0 ppm Antimony ppm ASTM D5185m ---0 0 Vanadium 0 ppm ASTM D5185m Cadmium ppm ASTM D5185m 0 0 0 **ADDITIVES** 5 2 2 Boron ppm ASTM D5185m 1 Barium ppm ASTM D5185m O 0 <1 0 ASTM D5185m 3 2 2 Molybdenum ppm 1 Manganese ppm ASTM D5185m 1 <1 <1 <1 19 23 Magnesium ppm ASTM D5185m 1 14 Calcium ASTM D5185m 2864 1944 1814 1745 ppm Phosphorus ppm ASTM D5185m 987 975 996 1038 Zinc ASTM D5185m 1162 1201 1252 1277 ppm Sulfur 4149 3057 ppm ASTM D5185m 3713 3573 CONTAMINANTS Silicon ASTM D5185m >20 7 6 6 ppm 2 Sodium ASTM D5185m 4 1 ppm ASTM D5185m Potassium >20 2 0 3 ppm FLUID CLEANLINESS method Particles >4µm ASTM D7647 >5000 606 2161 ---->1300 78 84 Particles >6µm ASTM D7647 Particles >14µm ASTM D7647 >160 6 10 2 Particles >21µm ASTM D7647 >40 3 Particles >38µm ASTM D7647 >10 0 0 >3 0 Particles >71µm ASTM D7647 0

ISO 4406 (c)

>19/17/14

16/13/10

Oil Cleanliness

18/14/10



OIL ANALYSIS REPORT









FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	3.32	0.88		0.88
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	>0.1	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	35.38	49.5	51.4	52.8
SAMPLE IMAG	iES	method	limit/base	current	history1	history2
Color					no image	

Bottom



Certificate L2367

Submitted By: CODY MITERKO

no image

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