

Area

Gas Compression [450310863]

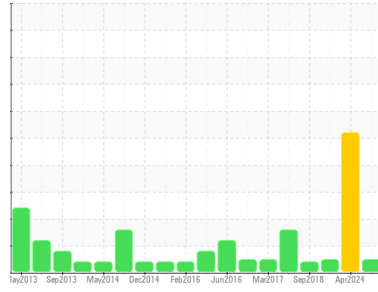
Machine Id
Methanol Wellhead Injection Pump D - Gearbox (S/N Sample Tag PD-42010D-S1)

Component

Gearbox

Fluid

PETRO CANADA ENDURATEX SYNTHETIC EP 220 (120 LTR)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number			PC	PC	PC
Sample Date			09 Apr 2024	09 Apr 2024	22 Dec 2019
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	ABNORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		0	0	10
Iron	ppm	ASTM D5185(m) >150	8	14	<1
Chromium	ppm	ASTM D5185(m) >10	0	0	0
Nickel	ppm	ASTM D5185(m) >10	0	1	0
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m)	0	0	0
Aluminum	ppm	ASTM D5185(m) >5	<1	▲ 5	<1
Lead	ppm	ASTM D5185(m) >65	0	2	0
Copper	ppm	ASTM D5185(m) >80	2	65	<1
Tin	ppm	ASTM D5185(m) >8	0	2	0
Antimony	ppm	ASTM D5185(m) >5	0	0	<1
Vanadium	ppm	ASTM D5185(m)	0	0	0
Beryllium	ppm	ASTM D5185(m)	0	0	0
Cadmium	ppm	ASTM D5185(m)	0	0	0

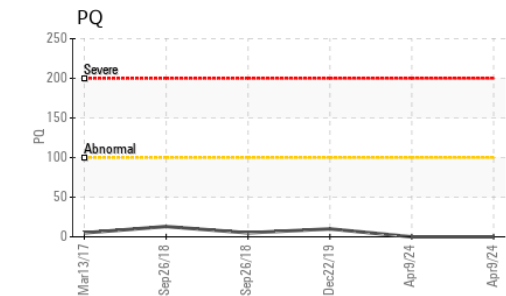
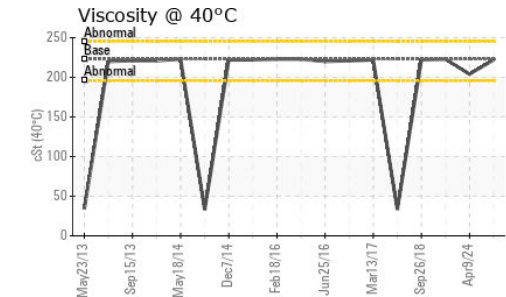
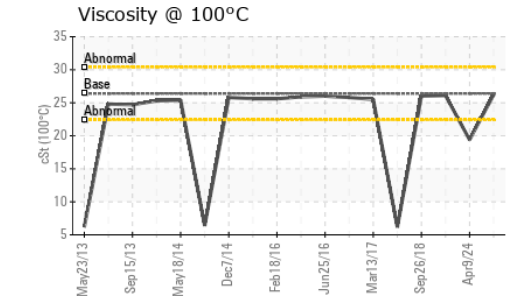
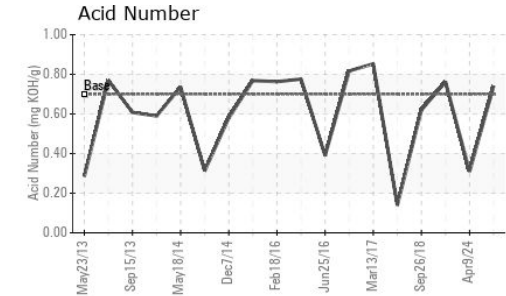
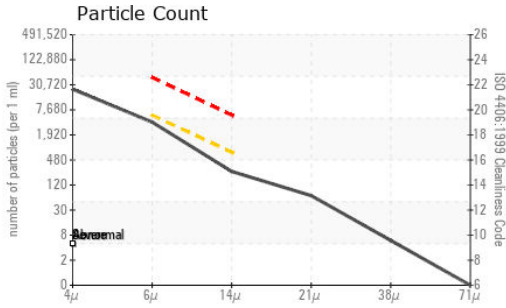
ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 33	11	22	23
Barium	ppm	ASTM D5185(m) 5	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0
Manganese	ppm	ASTM D5185(m)	0	1	0
Magnesium	ppm	ASTM D5185(m) 5	1	<1	<1
Calcium	ppm	ASTM D5185(m) 5	<1	<1	<1
Phosphorus	ppm	ASTM D5185(m) 437	381	215	417
Zinc	ppm	ASTM D5185(m) 5	2	8	1
Sulfur	ppm	ASTM D5185(m) 5000	4833	4414	4857
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	0	<1	0
Sodium	ppm	ASTM D5185(m)	4	<1	0
Potassium	ppm	ASTM D5185(m) >20	<1	<1	<1

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC **Received** : 26 Apr 2024
Lab Number : 02631760 **Tested** : 29 Apr 2024
Unique Number : 5772913 **Diagnosed** : 29 Apr 2024 - Kevin Marson
Test Package : MAR 2 (Additional Tests: KV100, PQ, PrtCount, TAN Man, VI)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647			20926	207903	18713
Particles >6µm	ASTM D7647	>5000		3396	▲ 97068	2241
Particles >14µm	ASTM D7647	>640		224	▲ 2079	69
Particles >21µm	ASTM D7647	>160		59	● 294	16
Particles >38µm	ASTM D7647	>40		5	4	0
Particles >71µm	ASTM D7647	>10		0	0	0
Oil Cleanliness	ISO 4406 (c)	>--/19/16		22/19/15	▲ 25/24/18	21/18/13

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.7	0.74	0.31	0.762

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	VLITE
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*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	223	222	204	223
Visc @ 100°C	cSt	ASTM D7279(m)	26.39	26.2	▲ 19.4	26.1
Viscosity Index (VI)	Scale	ASTM D2270*	151	150	▲ 108	149

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

