

Machine Id  
**KISSLING BAY ST**  
Component  
**Gearbox**  
Fluid  
**PETRO CANADA TRAXON 80W90 (200 LTR)**

**RECOMMENDATION**

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0069571</b>	PC0069574	PC0043832
Sample Date		Client Info		<b>15 May 2024</b>	03 May 2023	10 May 2022
Machine Age	hrs	Client Info		<b>13225</b>	12757	12258
Oil Age	hrs	Client Info		<b>967</b>	499	718
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	<b>2</b>	2	2
Chromium	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>0</b>	0	0
Lead	ppm	ASTM D5185(m)	>100	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>200	<b>0</b>	0	<1
Tin	ppm	ASTM D5185(m)	>25	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

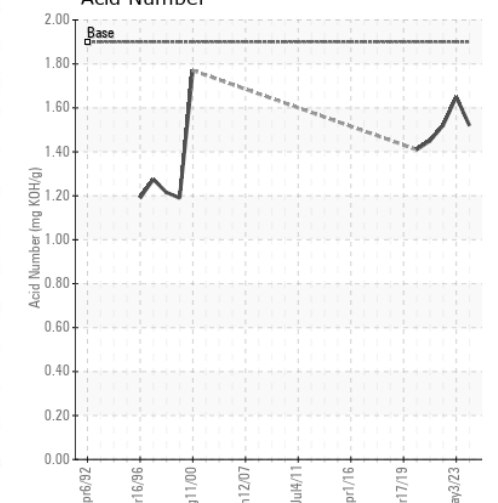
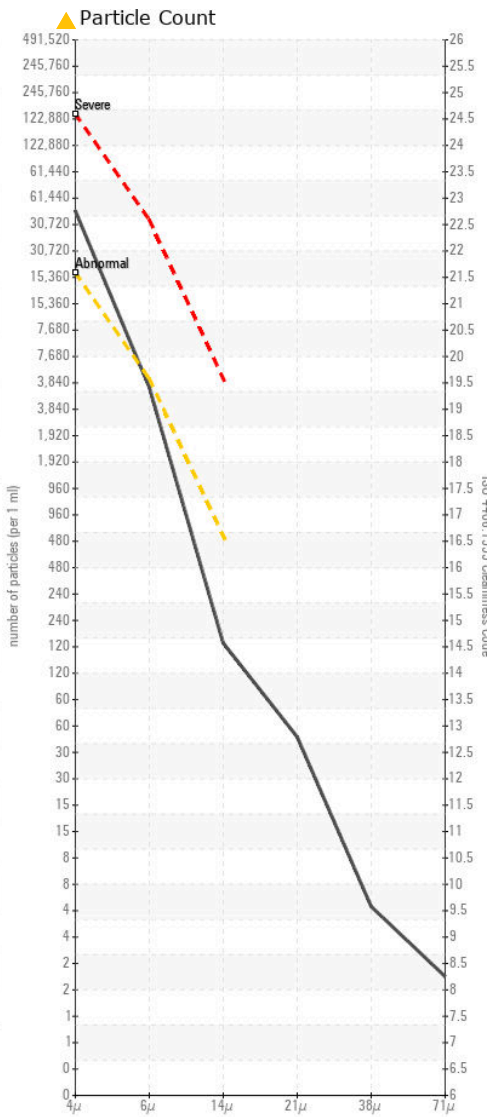
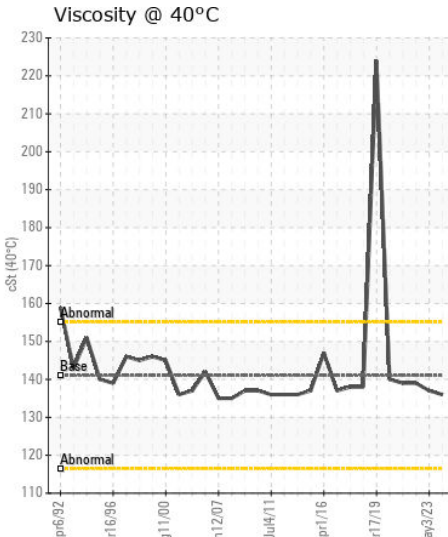
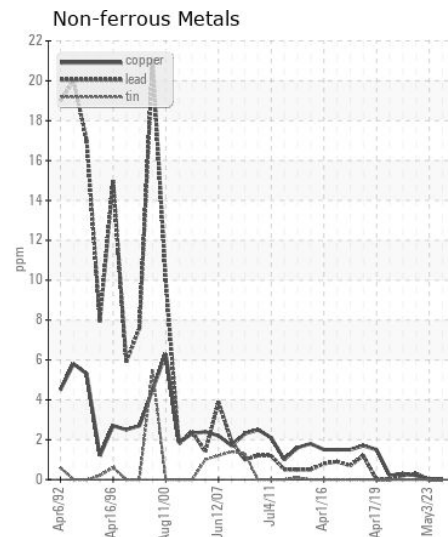
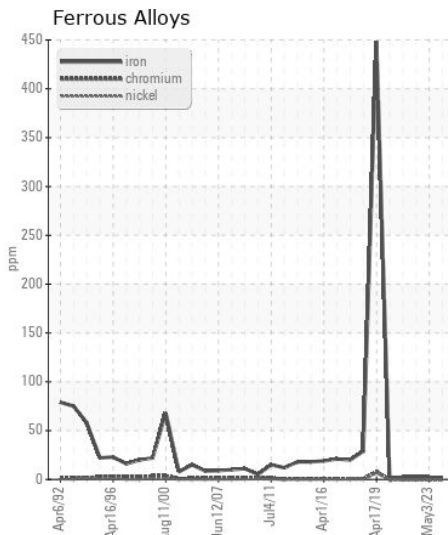
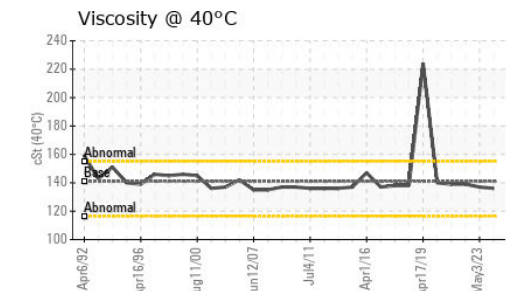
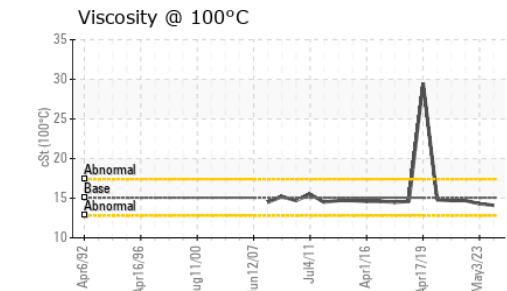
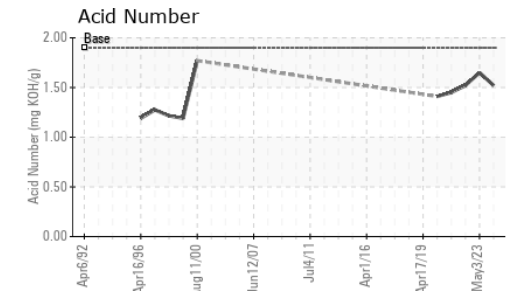
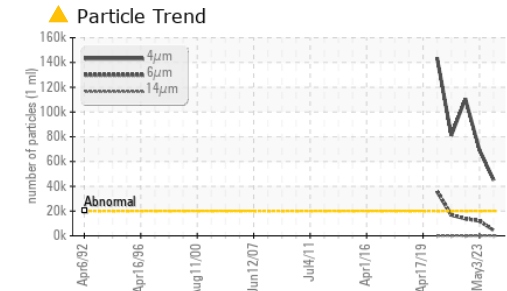
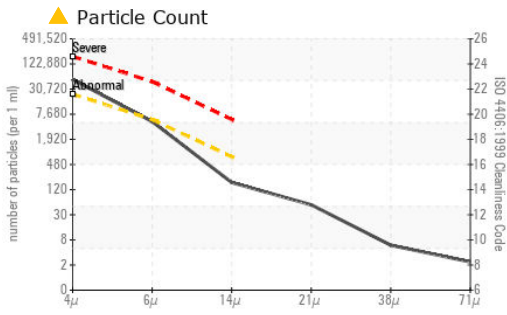
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>50	<b>2</b>	4	7
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>▲ 44993</b>	▲ 69367	▲ 110644
Particles >6µm		ASTM D7647	>5000	<b>4469</b>	▲ 11926	▲ 13858
Particles >14µm		ASTM D7647	>640	<b>157</b>	233	133
Particles >21µm		ASTM D7647	>160	<b>46</b>	52	21
Particles >38µm		ASTM D7647	>40	<b>5</b>	3	2
Particles >71µm		ASTM D7647	>10	<b>2</b>	0	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>▲ 23/19/14</b>	▲ 23/21/15	▲ 24/21/14
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Boron	ppm	ASTM D5185(m)	243	<b>252</b>	247	248
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	2	<b>&lt;1</b>	0	<1
Calcium	ppm	ASTM D5185(m)	6	<b>1</b>	0	4
Phosphorus	ppm	ASTM D5185(m)	987	<b>974</b>	1034	1031
Zinc	ppm	ASTM D5185(m)	1	<b>4</b>	3	6
Sulfur	ppm	ASTM D5185(m)	21530	<b>17455</b>	17857	17502
Acid Number (AN)	mg KOH/g	ASTM D974*	1.9	<b>1.52</b>	1.65	1.52
Visc @ 40°C	cSt	ASTM D7279(m)	141.0	<b>136</b>	137	139
Visc @ 100°C	cSt	ASTM D7279(m)	15.06	<b>14.1</b>	14.3	14.7
Viscosity Index (VI)	Scale	ASTM D2270*	108	<b>100</b>	102	105



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0069571 **Received** : 29 May 2024  
**Lab Number** : 02638684 **Tested** : 03 Jun 2024  
**Unique Number** : 5787846 **Diagnosed** : 03 Jun 2024 - Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: KV100, PrtCount, TAN Man, VI )

**THE GEORGIAN PEAKS CLUB**  
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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.