

Area
TEAM 15
Machine Id
156202 (S/N DIGESTER OUTLET DEVICE)
Component
Gearbox
Fluid
PETRO CANADA ENDURATEX EP 460 (255 GAL)

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		PC0078764	PC0074782	PC0070325
Sample Date		Client Info		28 Mar 2024	25 Oct 2023	12 Apr 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Filter Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

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

CONTAMINATION

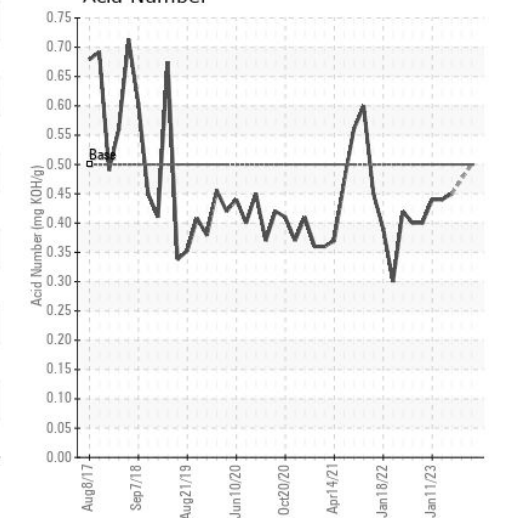
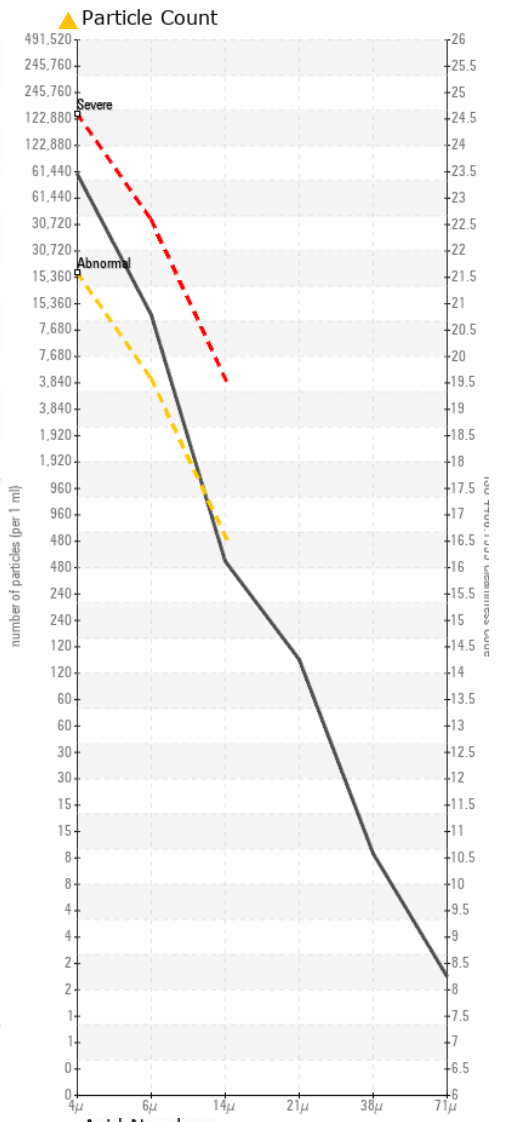
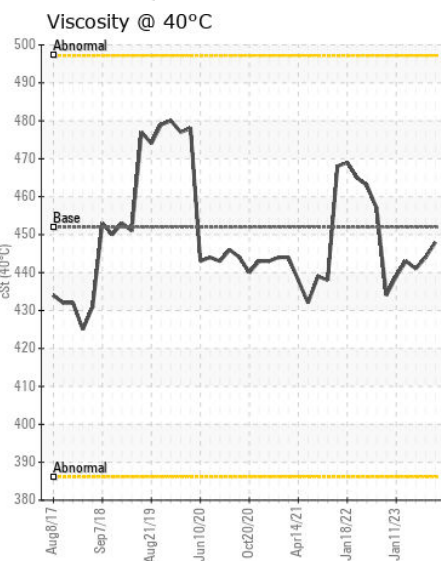
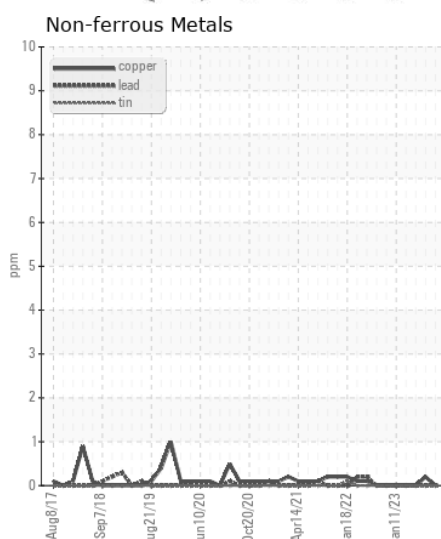
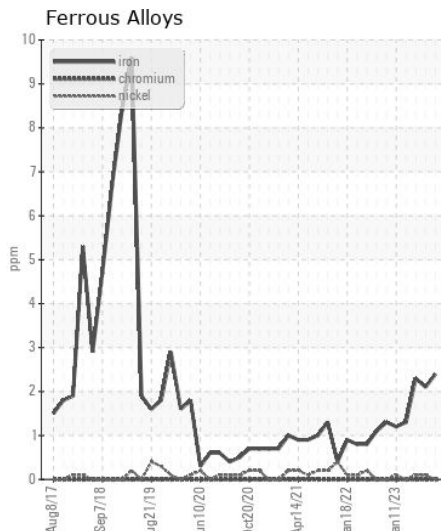
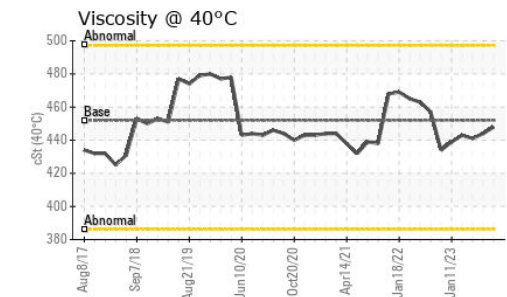
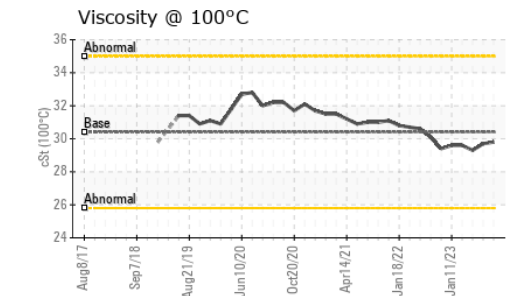
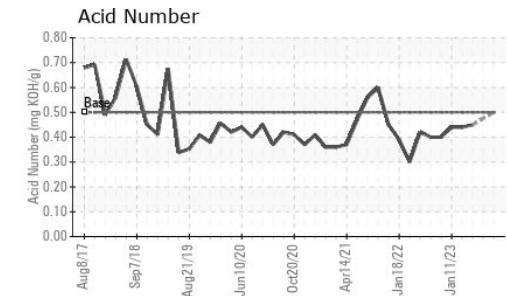
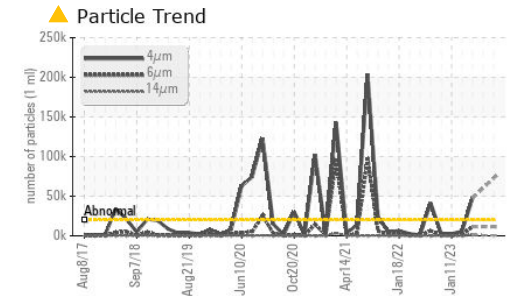
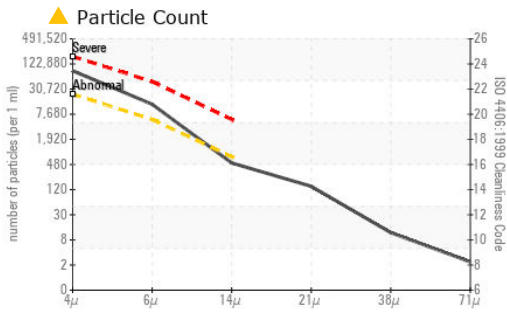
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>50	20	17	5
Potassium	ppm	ASTM D5185(m)	>20	3	2	2
Water		WC Method	>0.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	▲ 72787	---	▲ 47748
Particles >6µm		ASTM D7647	>5000	▲ 11529	---	▲ 11597
Particles >14µm		ASTM D7647	>640	459	---	● 1059
Particles >21µm		ASTM D7647	>160	127	---	▲ 321
Particles >38µm		ASTM D7647	>40	10	---	10
Particles >71µm		ASTM D7647	>10	2	---	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 23/21/16	---	▲ 23/21/17
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	VLITE	VLITE
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	.2%	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)		1	2	2
Boron	ppm	ASTM D5185(m)	55	12	8	11
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	2	<1	0	0
Calcium	ppm	ASTM D5185(m)	6	2	3	2
Phosphorus	ppm	ASTM D5185(m)	240	195	224	258
Zinc	ppm	ASTM D5185(m)	3	15	16	15
Sulfur	ppm	ASTM D5185(m)	10310	5398	5303	5739
Acid Number (AN)	mg KOH/g	ASTM D974*	0.5	0.50	---	0.45
Visc @ 40°C	cSt	ASTM D7279(m)	452	448	444	441
Visc @ 100°C	cSt	ASTM D7279(m)	30.41	29.8	29.7	29.3
Viscosity Index (VI)	Scale	ASTM D2270*	97	94	95	94



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0078764 **Received** : 08 Apr 2024
Lab Number : 02627467 **Tested** : 09 Apr 2024
Unique Number : 5760599 **Diagnosed** : 09 Apr 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: KV100, 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.