



WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Machine Id
NEW FLYER 303 (S/N 6511550343)
Component
Transmission (Auto)
Fluid
PETRO CANADA DuraDrive HD Synthetic 668 (30 LTR)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0082878	PC0069430	PC0064070
Sample Date		Client Info		18 Dec 2023	08 Aug 2023	31 Jan 2023
Machine Age	kms	Client Info		315200	0	315200
Oil Age	kms	Client Info		0	0	315200
Filter Age	kms	Client Info		0	0	141318
Oil Changed		Client Info		N/A	N/A	Not Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	SEVERE	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>230	70	66	52
Chromium	ppm	ASTM D5185(m)	>2	0	<1	0
Nickel	ppm	ASTM D5185(m)	>5	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>65	23	23	19
Lead	ppm	ASTM D5185(m)	>55	6	5	4
Copper	ppm	ASTM D5185(m)	>85	14	15	12
Tin	ppm	ASTM D5185(m)	>5	2	2	2
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

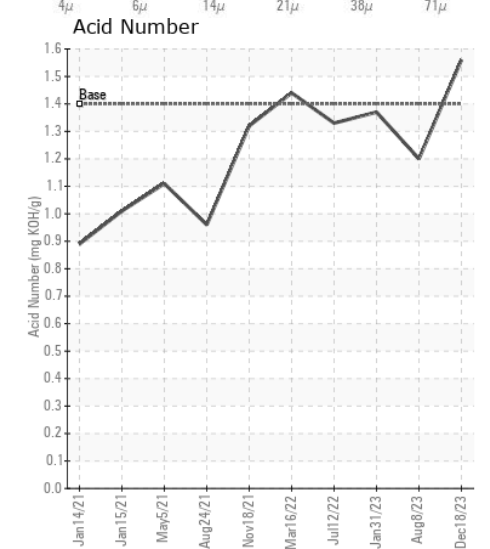
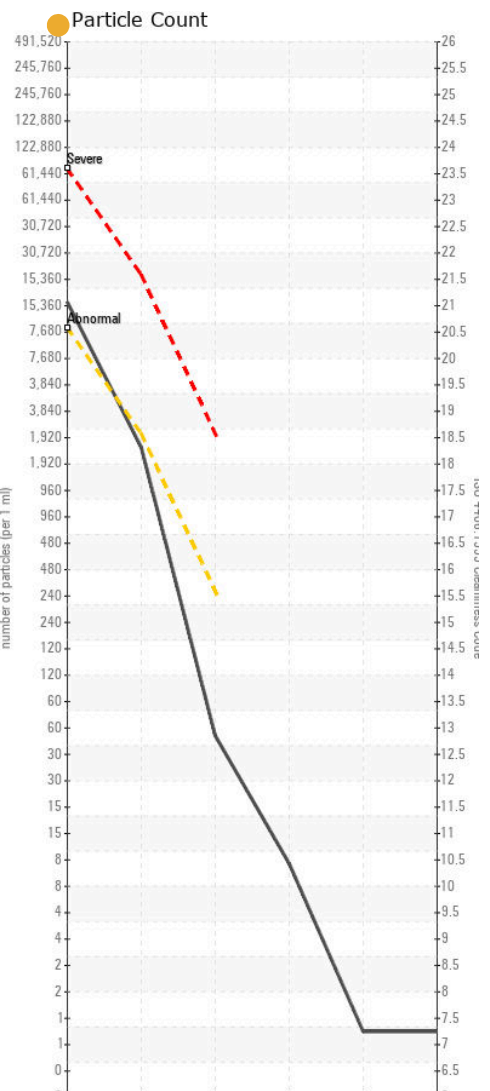
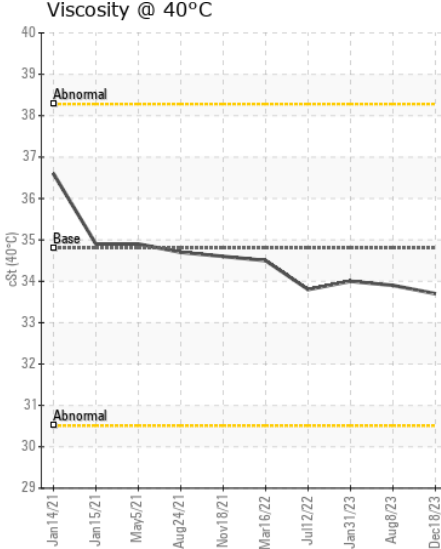
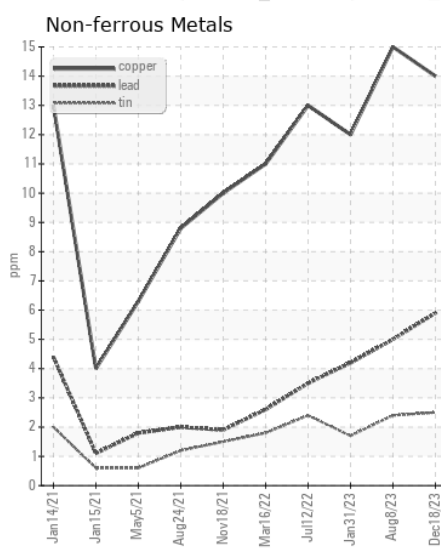
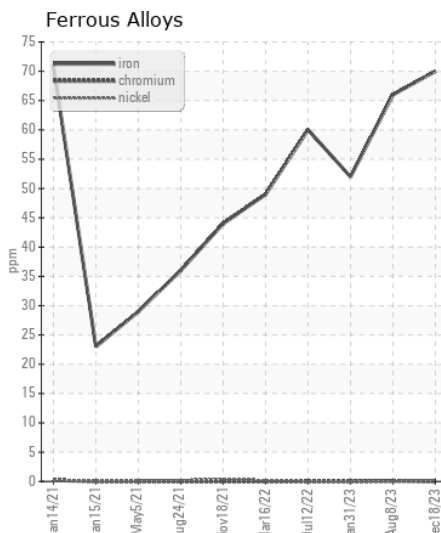
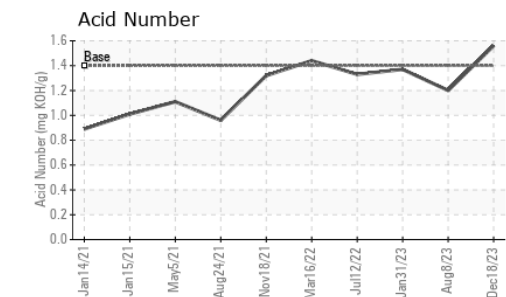
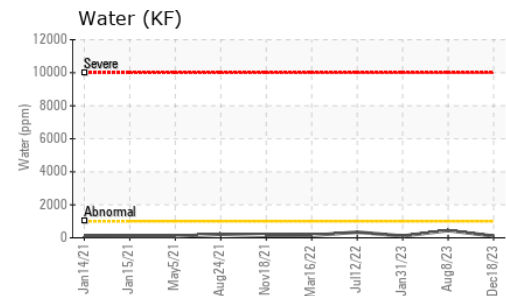
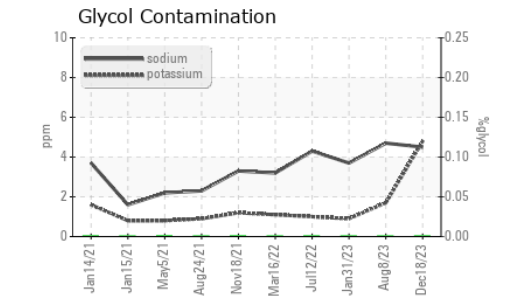
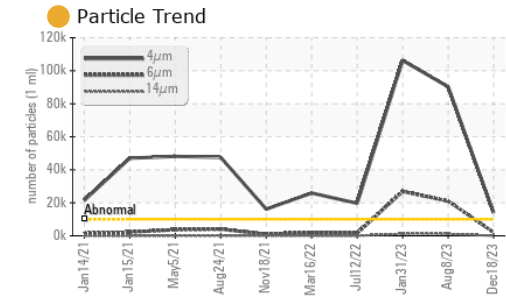
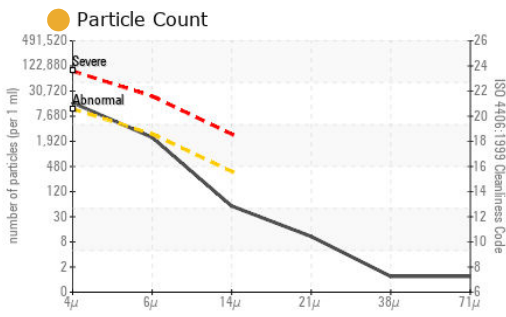
There is a light amount of silt (particulates < 14 microns in size) present in the fluid. The water content is negligible.

Silicon	ppm	ASTM D5185(m)	>20	6	7	6
Potassium	ppm	ASTM D5185(m)	>20	5	2	<1
Water	%	ASTM D6304*	>0.1	0.010	0.044	0.011
ppm Water	ppm	ASTM D6304*	>1000	106	441.4	111.5
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*		5.4	5.8	5.4
Sulfation	Abs/.1mm	ASTM D7415*		33.8	34.7	36.4
Particles >4µm		ASTM D7647	>10000	13971	▲ 90226	▲ 106238
Particles >6µm		ASTM D7647	>2500	2086	▲ 21033	▲ 26916
Particles >14µm		ASTM D7647	>320	48	▲ 1123	▲ 1207
Particles >21µm		ASTM D7647	>80	9	▲ 229	▲ 212
Particles >38µm		ASTM D7647	>20	1	7	4
Particles >71µm		ASTM D7647	>4	1	0	1
Oil Cleanliness		ISO 4406 (c)	>20/18/15	21/18/13	▲ 24/22/17	▲ 24/22/17
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	VLITE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		4	5	4
Boron	ppm	ASTM D5185(m)	78	61	64	70
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	1	2	1
Calcium	ppm	ASTM D5185(m)	113	107	106	105
Phosphorus	ppm	ASTM D5185(m)	222	223	245	247
Zinc	ppm	ASTM D5185(m)		4	6	4
Sulfur	ppm	ASTM D5185(m)	1326	1365	1436	1335
Oxidation	Abs/.1mm	ASTM D7414*		47.7	47.9	47.6
Acid Number (AN)	mg KOH/g	ASTM D974*	1.4	1.56	1.20	1.37
Visc @ 40°C	cSt	ASTM D7279(m)	34.8	33.7	33.9	34.0
Visc @ 100°C	cSt	ASTM D7279(m)	7.0	6.5	6.5	6.7
Viscosity Index (VI)	Scale	ASTM D2270*	167	149	148	158



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0082878 **Received** : 11 Jan 2024
Lab Number : 02608256 **Tested** : 15 Jan 2024
Unique Number : 5709342 **Diagnosed** : 15 Jan 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: FT-IR, Glycol, KF, KV100, PrtCount, TAN Man, VI)
 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.

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