



WEAR	NORMAL
CONTAMINATION	SEVERE
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 advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

WEAR

All component wear rates are normal.

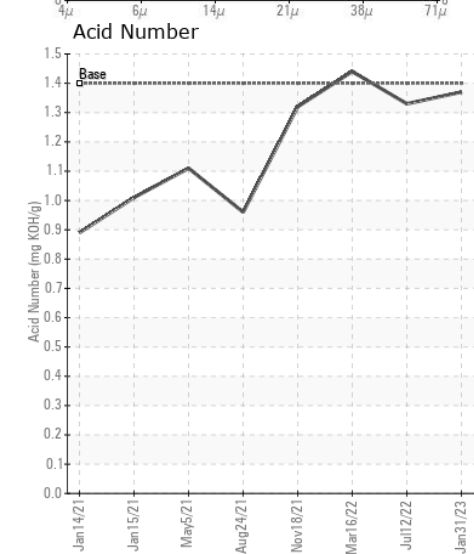
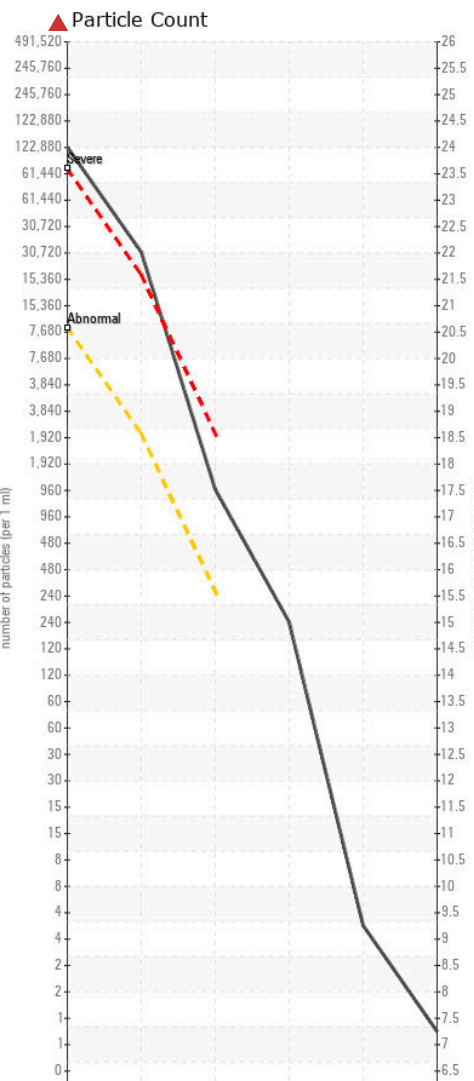
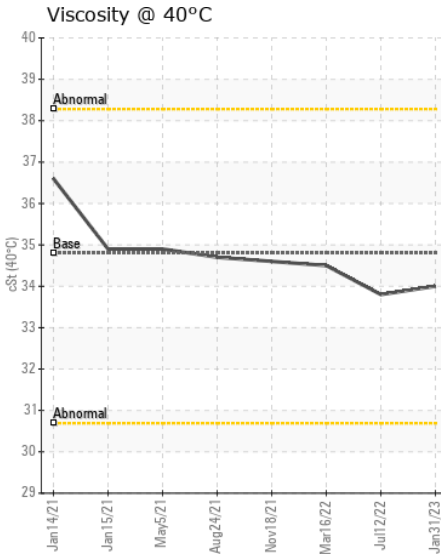
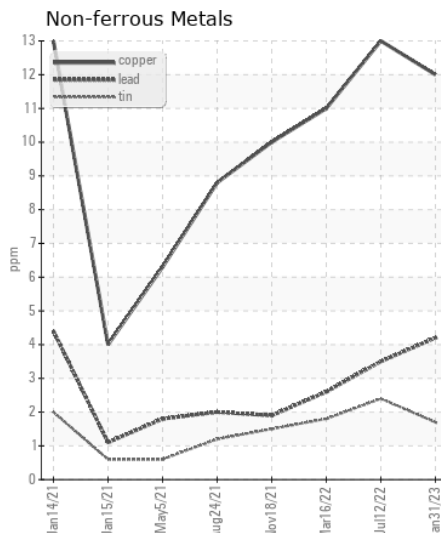
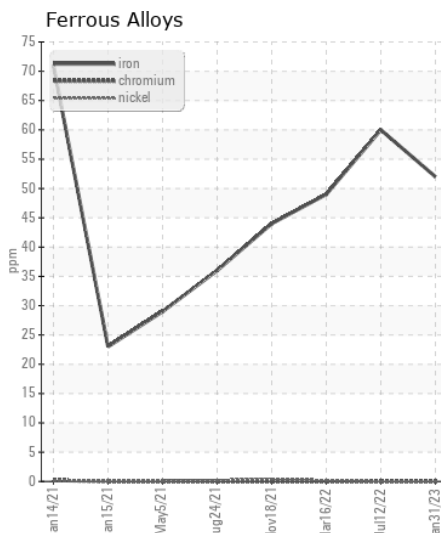
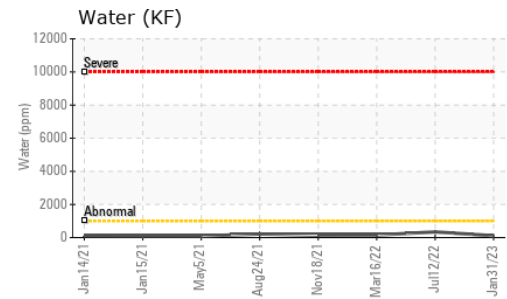
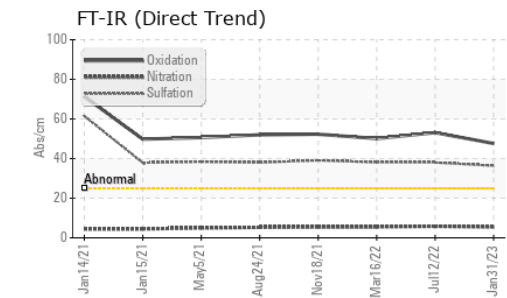
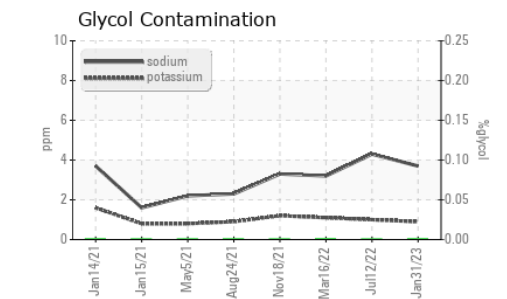
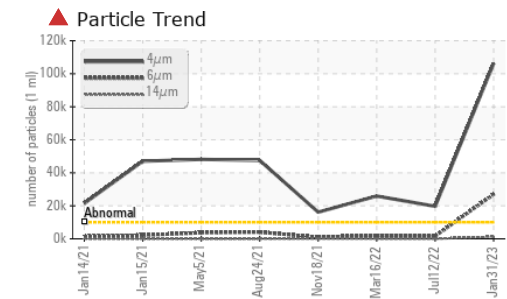
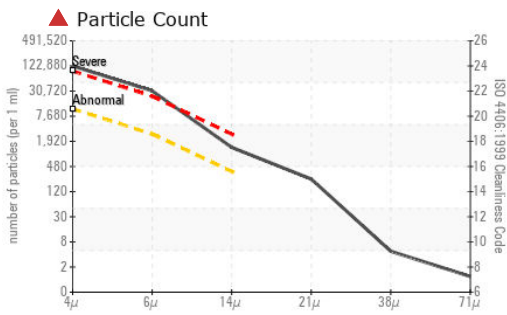
CONTAMINATION

Particles >6µm are severely high. Particles >4µm are severely high. Oil Cleanliness are severely high. Particles >14µm are abnormally high. Particles >21µm are abnormally high. The water content is negligible.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0064070	PC0060049	PC0057336
Sample Date		Client Info		31 Jan 2023	12 Jul 2022	16 Mar 2022
Machine Age	kms	Client Info		315200	251691	251691
Oil Age	kms	Client Info		315200	101915	0
Filter Age	kms	Client Info		141318	101915	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ATTENTION	ABNORMAL
Iron	ppm	ASTM D5185(m)	>230	52	60	49
Chromium	ppm	ASTM D5185(m)	>2	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>65	19	22	18
Lead	ppm	ASTM D5185(m)	>55	4	4	3
Copper	ppm	ASTM D5185(m)	>85	12	13	11
Tin	ppm	ASTM D5185(m)	>5	2	2	2
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>20	6	6	5
Potassium	ppm	ASTM D5185(m)	>20	<1	1	1
Water	%	ASTM D6304*	>0.1	0.011	0.034	0.014
ppm Water	ppm	ASTM D6304*	>1000	111.5	342.9	148.8
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*		5.4	5.8	5.5
Sulfation	Abs/.1mm	ASTM D7415*		36.4	38.0	38.1
Particles >4µm		ASTM D7647	>10000	▲ 106238	● 19681	▲ 25915
Particles >6µm		ASTM D7647	>2500	▲ 26916	● 1612	▲ 2090
Particles >14µm		ASTM D7647	>320	▲ 1207	● 26	▲ 38
Particles >21µm		ASTM D7647	>80	▲ 212	● 4	▲ 6
Particles >38µm		ASTM D7647	>20	4	● 1	▲ 0
Particles >71µm		ASTM D7647	>4	1	● 0	▲ 0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ 24/22/17	● 21/18/12	▲ 22/18/12
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
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*	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		4	4	3
Boron	ppm	ASTM D5185(m)	78	70	68	73
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	1	1	<1
Calcium	ppm	ASTM D5185(m)	113	105	103	97
Phosphorus	ppm	ASTM D5185(m)	222	247	225	235
Zinc	ppm	ASTM D5185(m)		4	3	3
Sulfur	ppm	ASTM D5185(m)	1326	1335	1192	1106
Oxidation	Abs/.1mm	ASTM D7414*		47.6	53.1	50.1
Acid Number (AN)	mg KOH/g	ASTM D974*	1.4	1.37	1.33	1.44
Visc @ 40°C	cSt	ASTM D7279(m)	34.8	34.0	33.8	34.5
Visc @ 100°C	cSt	ASTM D7279(m)	7.0	6.7	6.7	6.6
Viscosity Index (VI)	Scale	ASTM D2270*	167	158	159	149



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0064070 **Received** : 06 Mar 2023
Lab Number : 02543197 **Tested** : 07 Mar 2023
Unique Number : 5540202 **Diagnosed** : 07 Mar 2023 - 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.

WINNIPEG TRANSIT
 421 OSBORNE STREET
 WINNIPEG, MB
 CA R3L 2A2
 Contact: Jason Lavoie
 jlavoie@winnipeg.ca
 T: (204)986-4762
 F: