



Machine Id
NEW FLYER 369 (S/N 6511610922)
Component
Transmission (Auto)
Fluid
PETRO CANADA DuraDrive HD Synthetic 668 (30 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		PC0064072	PC0064088	PC0057337
Sample Date		Client Info		02 Feb 2023	13 Jul 2022	07 Apr 2022
Machine Age	kms	Client Info		249801	209380	0
Oil Age	kms	Client Info		140800	100379	0
Filter Age	kms	Client Info		74740	100379	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>230	78	62	51
Chromium	ppm	ASTM D5185(m)	>2	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	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	36	27	21
Lead	ppm	ASTM D5185(m)	>55	6	4	4
Copper	ppm	ASTM D5185(m)	>85	16	13	10
Tin	ppm	ASTM D5185(m)	>5	4	3	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

CONTAMINATION

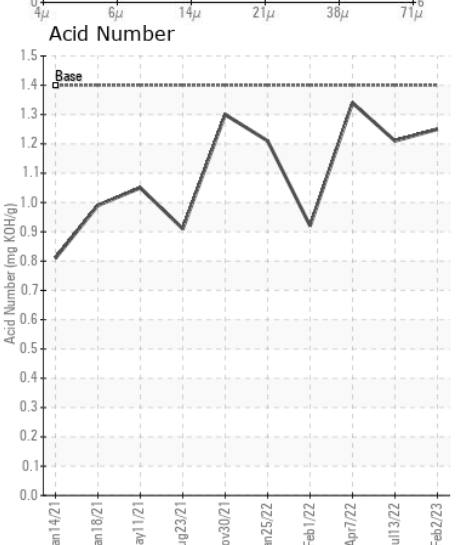
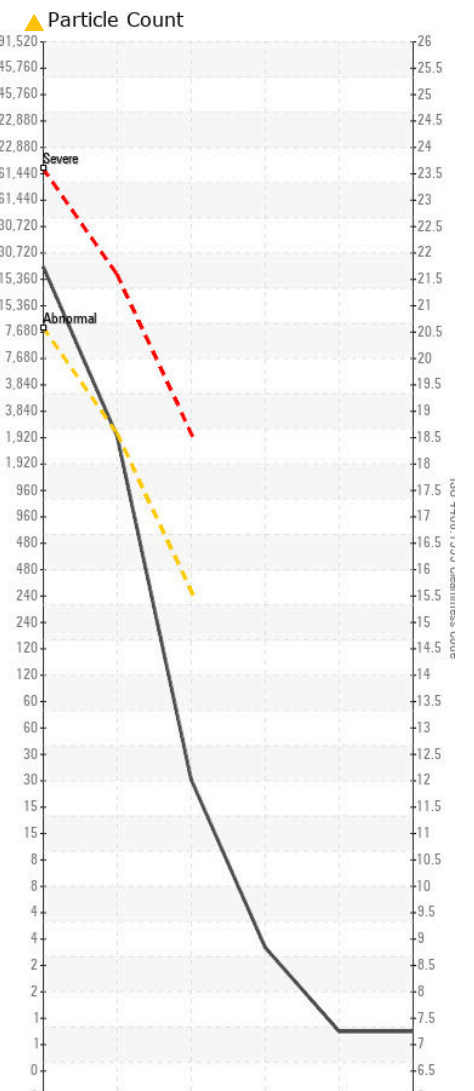
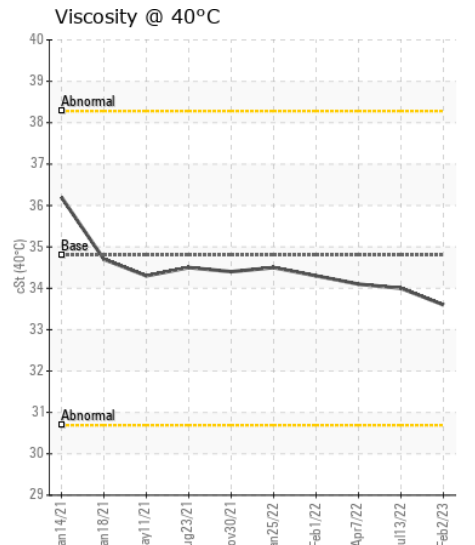
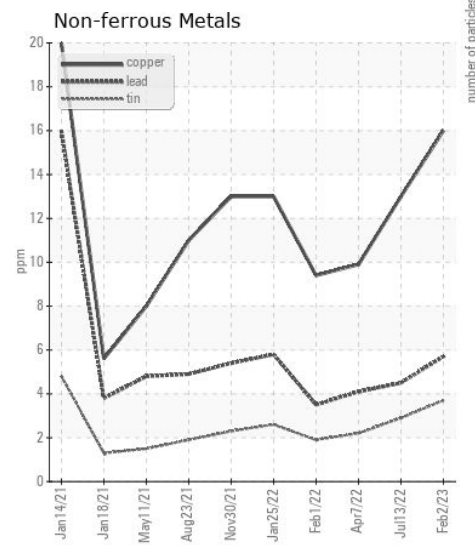
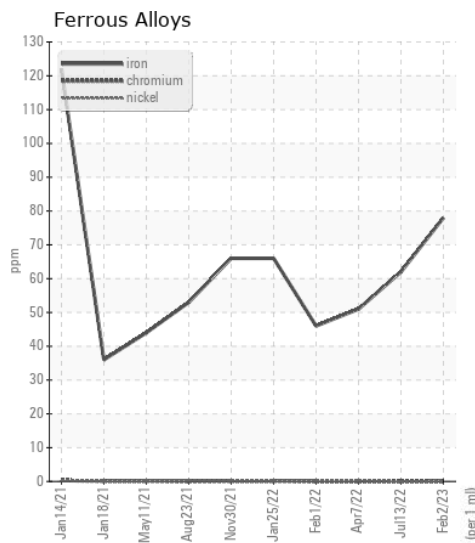
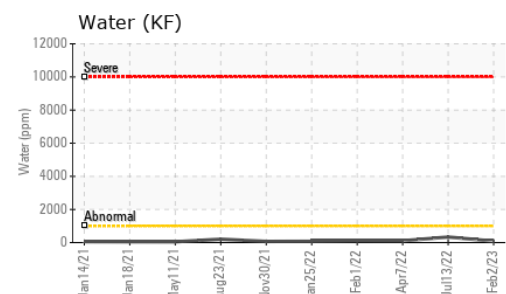
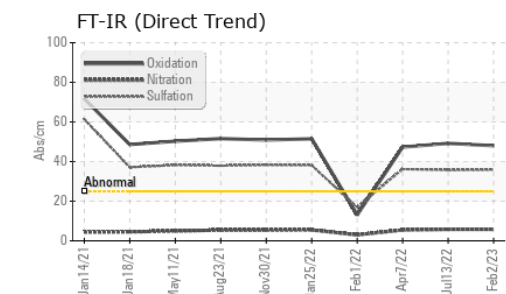
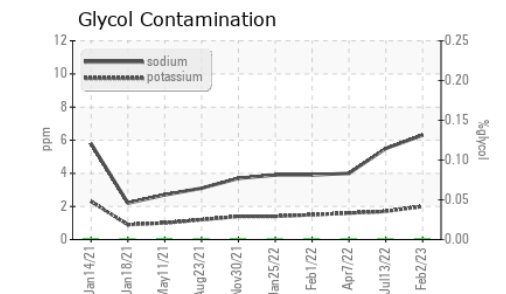
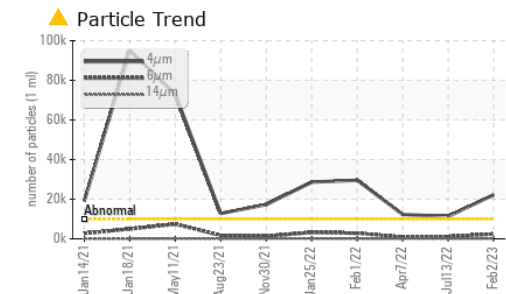
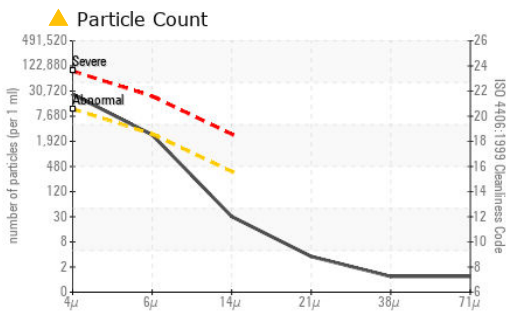
Particles >4µm and oil cleanliness are abnormally high. The water content is negligible.

Silicon	ppm	ASTM D5185(m)	>20	6	6	5
Potassium	ppm	ASTM D5185(m)	>20	2	2	2
Water	%	ASTM D6304*	>0.1	0.008	0.033	0.010
ppm Water	ppm	ASTM D6304*	>1000	85.7	336.6	108.4
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*		5.8	5.8	5.5
Sulfation	Abs/.1mm	ASTM D7415*		35.9	35.6	36.2
Particles >4µm		ASTM D7647	>10000	▲ 22207	● 11289	● 12295
Particles >6µm		ASTM D7647	>2500	2407	1155	826
Particles >14µm		ASTM D7647	>320	27	25	22
Particles >21µm		ASTM D7647	>80	3	5	3
Particles >38µm		ASTM D7647	>20	1	0	0
Particles >71µm		ASTM D7647	>4	1	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ 22/18/12	● 21/17/12	● 21/17/12
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
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*	>0.1	NEG	NEG	NEG

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.

Sodium	ppm	ASTM D5185(m)		6	6	4
Boron	ppm	ASTM D5185(m)	78	60	63	71
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	111	110	105
Phosphorus	ppm	ASTM D5185(m)	222	245	219	235
Zinc	ppm	ASTM D5185(m)		6	5	4
Sulfur	ppm	ASTM D5185(m)	1326	1237	1261	1200
Oxidation	Abs/.1mm	ASTM D7414*		48.0	49.2	47.3
Acid Number (AN)	mg KOH/g	ASTM D974*	1.4	1.25	1.21	1.34
Visc @ 40°C	cSt	ASTM D7279(m)	34.8	33.6	34.0	34.1
Visc @ 100°C	cSt	ASTM D7279(m)	7.0	6.5	6.7	6.6
Viscosity Index (VI)	Scale	ASTM D2270*	167	150	158	152



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0064072 **Received** : 06 Mar 2023
Lab Number : 02543204 **Tested** : 07 Mar 2023
Unique Number : 5540209 **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.

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