



Machine Id
NEW FLYER 367 (S/N 6511608871)
Component
Transmission (Auto)
Fluid
PETRO CANADA DuraDrive HD Synthetic 668 (30 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0064071	PC0060051	PC0060035
Sample Date		Client Info		02 Feb 2023	11 Jul 2022	14 Mar 2022
Machine Age	kms	Client Info		268488	229772	204377
Oil Age	kms	Client Info		38716	107477	0
Filter Age	kms	Client Info		146193	107477	0
Oil Changed		Client Info		Not Changed	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>230	71	60	53
Chromium	ppm	ASTM D5185(m)	>2	0	0	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	18	14
Lead	ppm	ASTM D5185(m)	>55	2	2	2
Copper	ppm	ASTM D5185(m)	>85	11	9	7
Tin	ppm	ASTM D5185(m)	>5	1	<1	<1
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

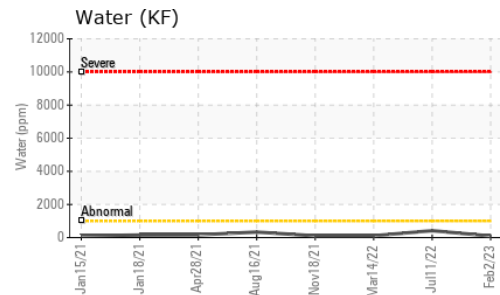
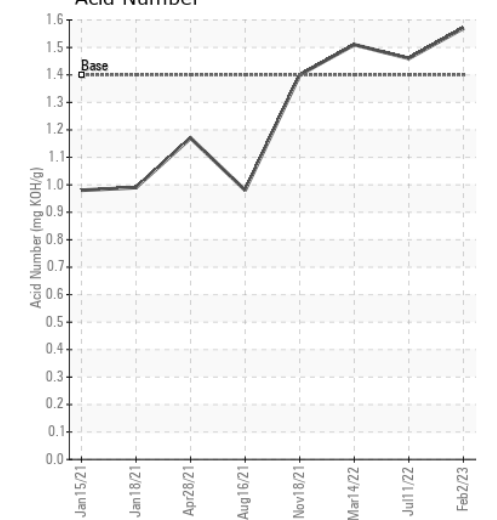
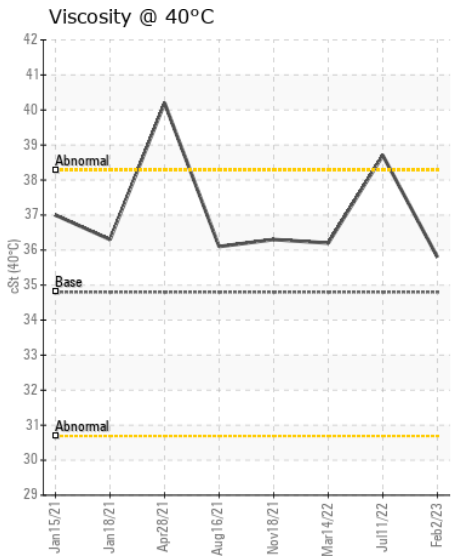
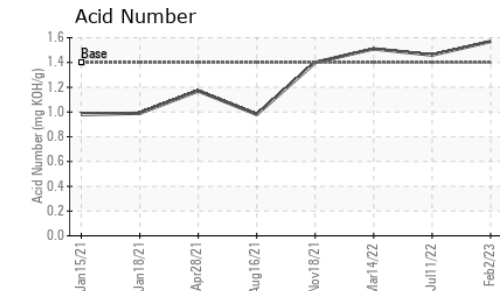
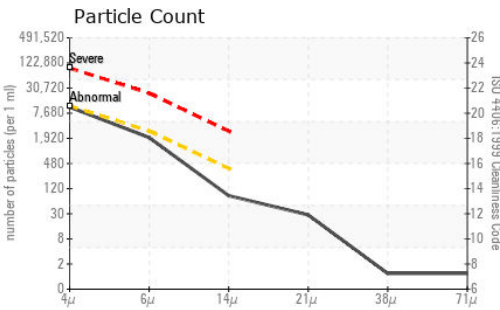
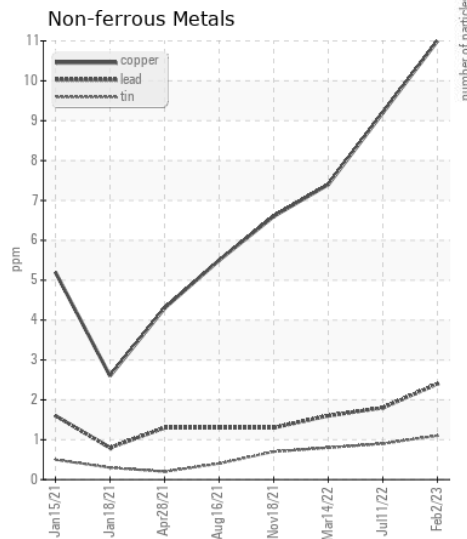
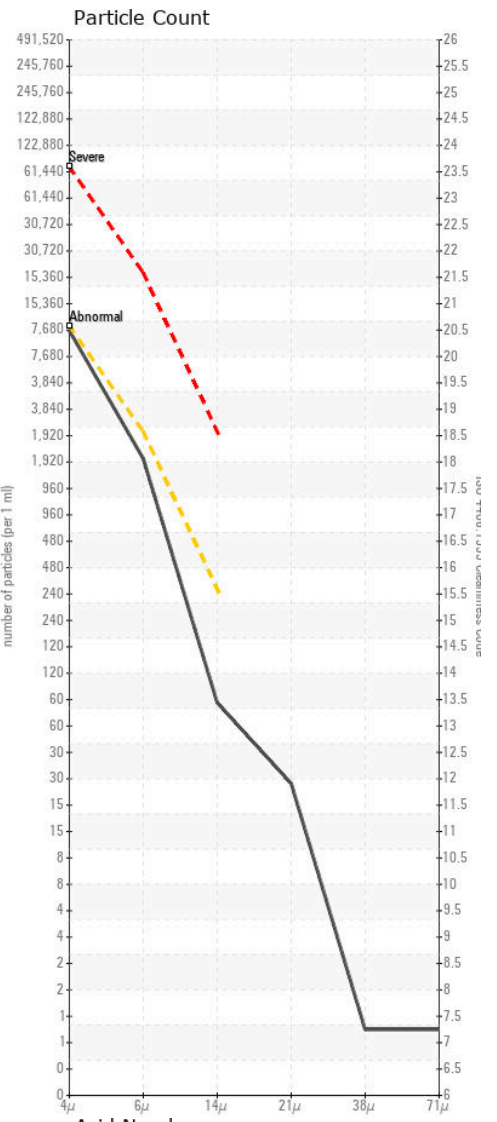
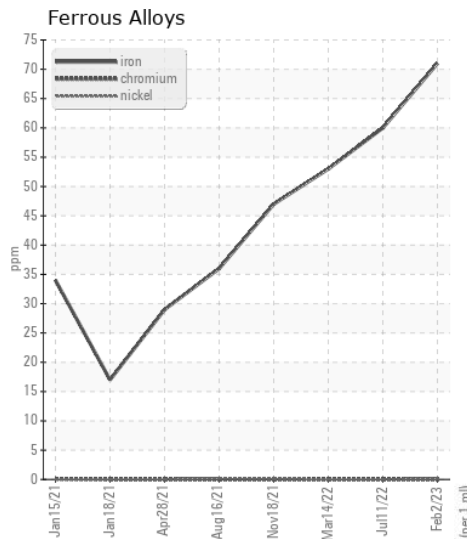
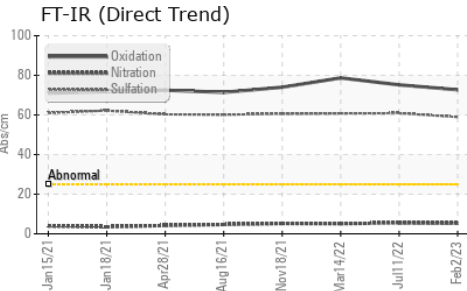
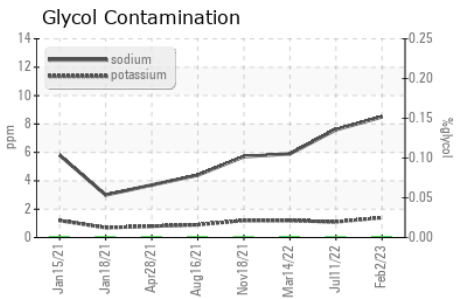
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>20	4	4	3
Potassium	ppm	ASTM D5185(m)	>20	1	1	1
Water	%	ASTM D6304*	>0.1	0.009	0.041	0.010
ppm Water	ppm	ASTM D6304*	>1000	93.1	417.1	108.8
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*		5.3	5.5	5.1
Sulfation	Abs/.1mm	ASTM D7415*		58.9	60.9	60.8
Particles >4µm		ASTM D7647	>10000	9385	▲ 20044	6572
Particles >6µm		ASTM D7647	>2500	1754	● 3546	875
Particles >14µm		ASTM D7647	>320	72	96	25
Particles >21µm		ASTM D7647	>80	25	14	3
Particles >38µm		ASTM D7647	>20	1	1	0
Particles >71µm		ASTM D7647	>4	1	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	20/18/13	▲ 22/19/14	20/17/12
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 condition of the fluid is suitable for further service.

Sodium	ppm	ASTM D5185(m)		8	8	6
Boron	ppm	ASTM D5185(m)	78	101	105	115
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	46	45	43
Phosphorus	ppm	ASTM D5185(m)	222	295	276	291
Zinc	ppm	ASTM D5185(m)		6	5	4
Sulfur	ppm	ASTM D5185(m)	1326	744	763	706
Oxidation	Abs/.1mm	ASTM D7414*		72.7	75.2	78.7
Acid Number (AN)	mg KOH/g	ASTM D974*	1.4	1.57	1.46	1.51
Visc @ 40°C	cSt	ASTM D7279(m)	34.8	35.8	38.7	36.2
Visc @ 100°C	cSt	ASTM D7279(m)	7.0	7.1	7.1	7.2
Viscosity Index (VI)	Scale	ASTM D2270*	167	165	147	167



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Sample No. : PC0064071

Lab Number : 02543202

Unique Number : 5540207

Test Package : MOB 2 (Additional Tests: FT-IR, Glycol, KF, KV100, PrtCount, TAN Man, VI)

Received : 06 Mar 2023

Tested : 07 Mar 2023

Diagnosed : 07 Mar 2023 - Kevin Marson

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

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