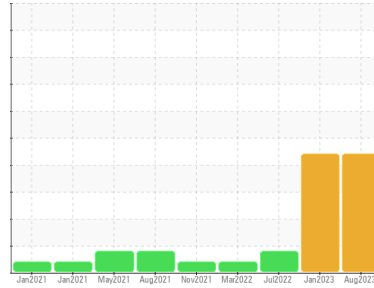


OIL ANALYSIS REPORT

Sample Rating Trend



ISO



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

DIAGNOSIS

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

There is a high amount of particulates (2 to 100 microns in size) present in the fluid. 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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0069430	PC0064070	PC0060049
Sample Date	Client Info	08 Aug 2023	31 Jan 2023	12 Jul 2022
Machine Age	kms Client Info	0	315200	251691
Oil Age	kms Client Info	0	315200	101915
Oil Changed	Client Info	N/A	Not Changd	Not Changd
Sample Status		SEVERE	SEVERE	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >230	66	52	60
Chromium	ppm ASTM D5185(m) >2	<1	0	0
Nickel	ppm ASTM D5185(m) >5	0	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	19	22
Lead	ppm ASTM D5185(m) >55	5	4	4
Copper	ppm ASTM D5185(m) >85	15	12	13
Tin	ppm ASTM D5185(m) >5	2	2	2
Antimony	ppm ASTM D5185(m)	0	<1	0
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 78	64	70	68
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	2	1	1
Calcium	ppm ASTM D5185(m) 113	106	105	103
Phosphorus	ppm ASTM D5185(m) 222	245	247	225
Zinc	ppm ASTM D5185(m)	6	4	3
Sulfur	ppm ASTM D5185(m) 1326	1436	1335	1192
Lithium	ppm ASTM D5185(m)	<1	<1	<1

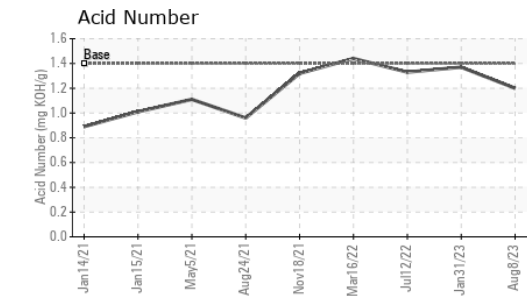
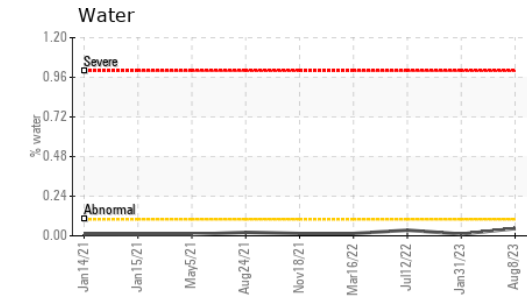
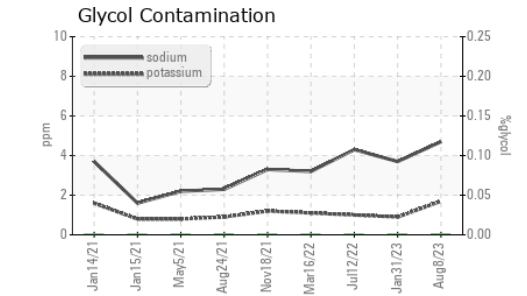
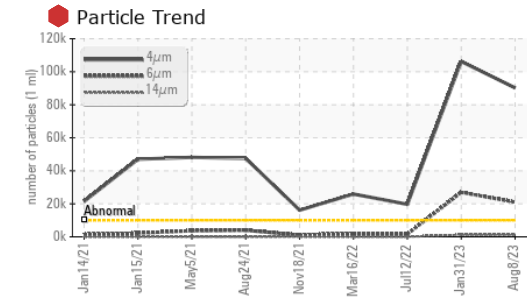
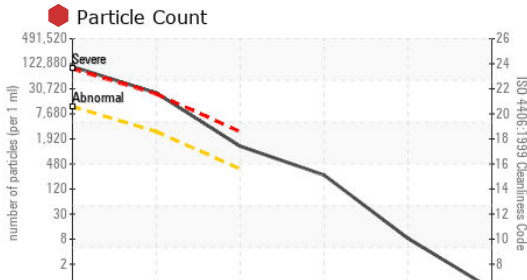
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	7	6	6
Sodium	ppm ASTM D5185(m)	5	4	4
Potassium	ppm ASTM D5185(m) >20	2	<1	1
Water	% ASTM D6304* >0.1	0.044	0.011	0.034
ppm Water	ppm ASTM D6304* >1000	441.4	111.5	342.9
Glycol	% ASTM D7922*	0.0	0.0	0.0

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	0	0	0
Nitration	Abs/cm ASTM D7624*	5.8	5.4	5.8
Sulfation	Abs/1mm ASTM D7415*	34.7	36.4	38.0

OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0069430 **Received** : 09 Aug 2023
Lab Number : **02574935** **Diagnosed** : 10 Aug 2023
Unique Number : 5619986 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: FT-IR, Glycol, KF, KV100, PrtCount, 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.

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	90226	106238	19681	
Particles >6µm	ASTM D7647	>2500	21033	26916	1612	
Particles >14µm	ASTM D7647	>320	1123	1207	26	
Particles >21µm	ASTM D7647	>80	229	212	4	
Particles >38µm	ASTM D7647	>20	7	4	1	
Particles >71µm	ASTM D7647	>4	0	1	0	
Oil Cleanliness	ISO 4406 (c)	>20/18/15	24/22/17	24/22/17	21/18/12	

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*		47.9	47.6	53.1
Acid Number (AN)	mg KOH/g	ASTM D974*	1.4	1.20	1.37	1.33

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	VLITE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	34.8	33.9	34.0	33.8
Visc @ 100°C	cSt	ASTM D7279(m)	7.0	6.5	6.7	6.7
Viscosity Index (VI)	Scale	ASTM D2270*	167	148	158	159

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						



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