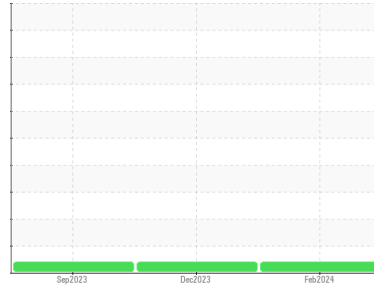


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
2026773
 Component
Diesel Engine
 Fluid
PETRO CANADA 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0118949	PCA0106419	PCA0106444
Sample Date	Client Info			26 Feb 2024	21 Dec 2023	19 Sep 2023
Machine Age	mls	Client Info		30000	0	592482
Oil Age	mls	Client Info		30000	30000	30000
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method	>0.2		NEG	NEG	NEG
Glycol	WC Method			NEG	0.0	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	25	77	50
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	1	2	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	11	4	3
Lead	ppm	ASTM D5185m	>40	<1	2	2
Copper	ppm	ASTM D5185m	>330	166	12	4
Tin	ppm	ASTM D5185m	>15	2	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0

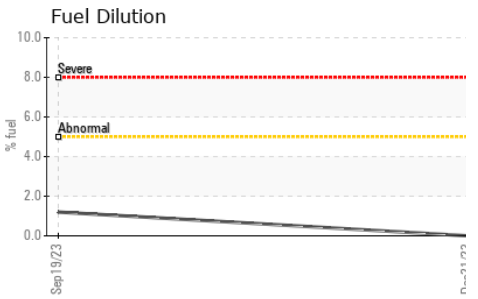
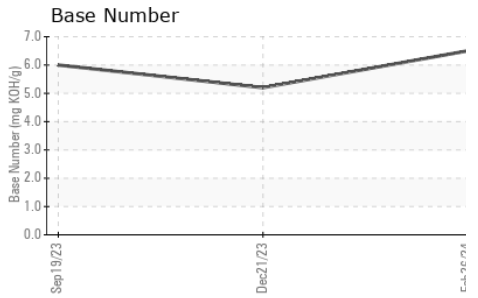
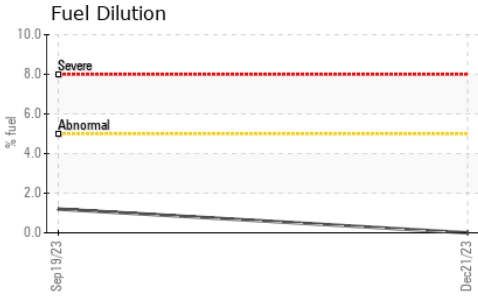
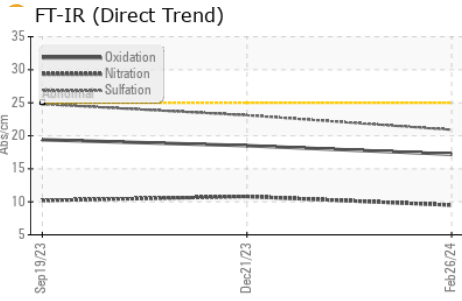
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		11	<1	<1
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		72	68	61
Manganese	ppm	ASTM D5185m		1	1	1
Magnesium	ppm	ASTM D5185m		834	969	949
Calcium	ppm	ASTM D5185m		1182	1104	1111
Phosphorus	ppm	ASTM D5185m		864	1023	949
Zinc	ppm	ASTM D5185m		1147	1270	1238
Sulfur	ppm	ASTM D5185m		2655	2725	3009

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	13	9
Sodium	ppm	ASTM D5185m		3	81	17
Potassium	ppm	ASTM D5185m	>20	30	72	9
Fuel	%	ASTM D3524	>5	<1.0	<1.0	1.2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.9	0
Nitration	Abs/cm	*ASTM D7624	>20	9.5	10.8	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.9	23.1	24.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	18.5	19.4
Base Number (BN)	mg KOH/g	ASTM D2896		6.5	5.2	6.0

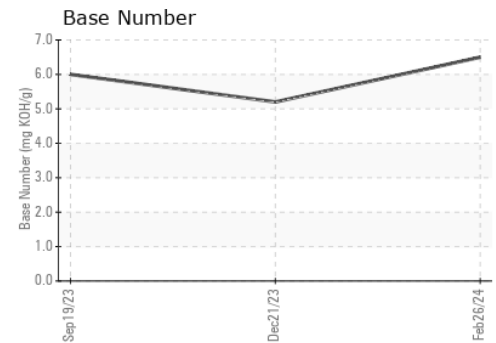
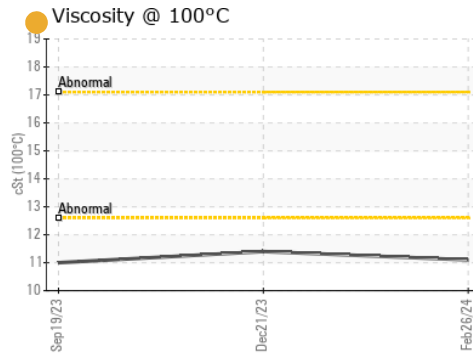
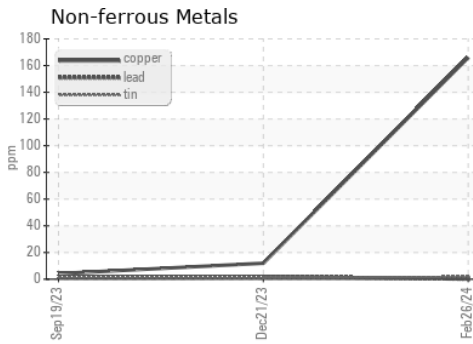
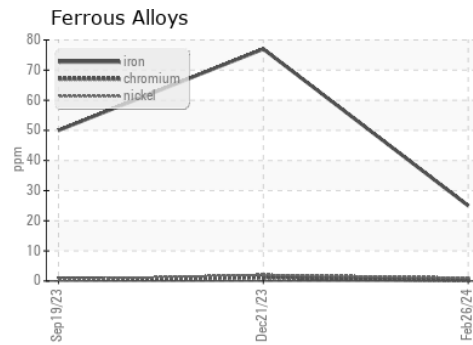
OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	● 11.1	● 11.4	● 11.0

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0118949 **Received** : 10 Apr 2024
Lab Number : 06145210 **Tested** : 11 Apr 2024
Unique Number : 10970018 **Diagnosed** : 13 Apr 2024 - Don Baldrige
Test Package : FLEET (Additional Tests : FuelDilution)

PERDUE FARMS INC - GARAGE
 189 PERDUE WAY
 CANDOR, NC
 US 27229
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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