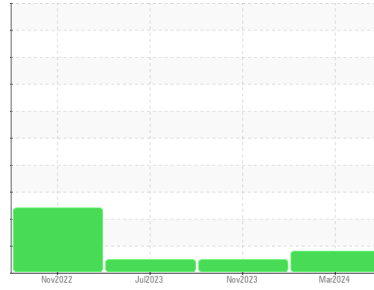


OIL ANALYSIS REPORT

Area
FLEET
 Machine Id
2126948 (S/N N603211)
 Component
Primary Diesel Engine
 Fluid
PETRO CANADA 10W30 (36 QTS)

Sample Rating Trend



DIAGNOSIS

Recommendation
 Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
 Exhaust valve wear is indicated.

Contamination
 There is no indication of any contamination in the oil.

Fluid Condition
 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0116238	PCA0108109	PCA0102040
Sample Date	Client Info			18 Mar 2024	14 Nov 2023	25 Jul 2023
Machine Age	mls Client Info			152045	152045	0
Oil Age	mls Client Info			152045	40000	0
Oil Changed	Client Info			Changed	Changed	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>6.0		<1.0	<1.0	<1.0
Water	WC Method	>0.2		NEG	NEG	NEG
Glycol	WC Method			NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100		21	22	23
Chromium	ppm ASTM D5185m	>20		0	<1	<1
Nickel	ppm ASTM D5185m	>2		▲ 6	4	2
Titanium	ppm ASTM D5185m			0	<1	0
Silver	ppm ASTM D5185m	>2		0	0	0
Aluminum	ppm ASTM D5185m	>25		2	5	4
Lead	ppm ASTM D5185m	>40		0	1	1
Copper	ppm ASTM D5185m	>330		14	29	49
Tin	ppm ASTM D5185m	>15		0	1	2
Vanadium	ppm ASTM D5185m			0	<1	<1
Cadmium	ppm ASTM D5185m			0	0	0

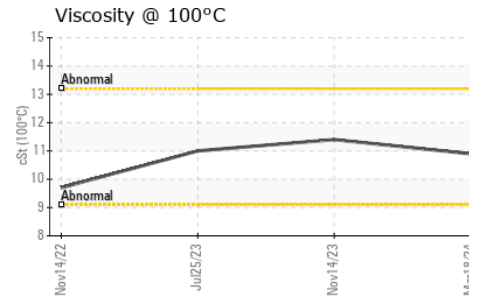
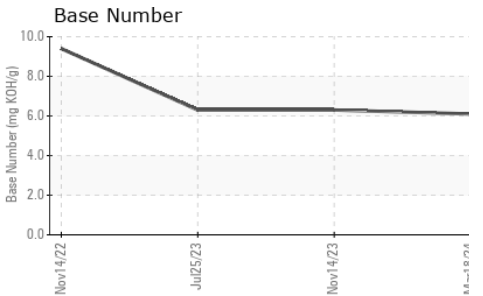
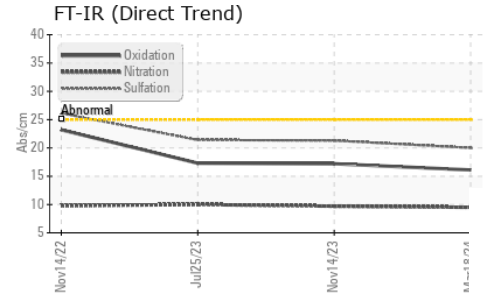
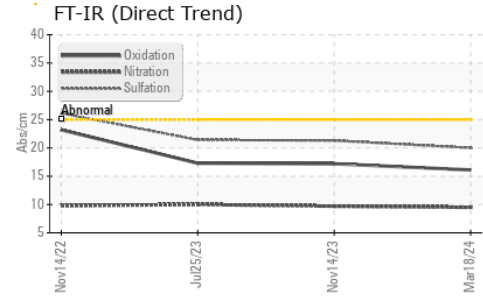
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m			0	1	<1
Barium	ppm ASTM D5185m			0	0	0
Molybdenum	ppm ASTM D5185m			63	62	63
Manganese	ppm ASTM D5185m			0	<1	<1
Magnesium	ppm ASTM D5185m			960	945	931
Calcium	ppm ASTM D5185m			1179	1082	1131
Phosphorus	ppm ASTM D5185m			1038	937	846
Zinc	ppm ASTM D5185m			1245	1225	1191
Sulfur	ppm ASTM D5185m			3445	2547	2679

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25		5	8	6
Sodium	ppm ASTM D5185m			2	7	2
Potassium	ppm ASTM D5185m	>20		6	16	10

INFRA-RED		method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3		0.4	0.5	0.5
Nitration	Abs/cm *ASTM D7624	>20		9.5	9.7	10.0
Sulfation	Abs/.1mm *ASTM D7415	>30		20.0	21.3	21.4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25		16.1	17.2	17.3
Base Number (BN)	mg KOH/g ASTM D2896			6.1	6.3	6.3

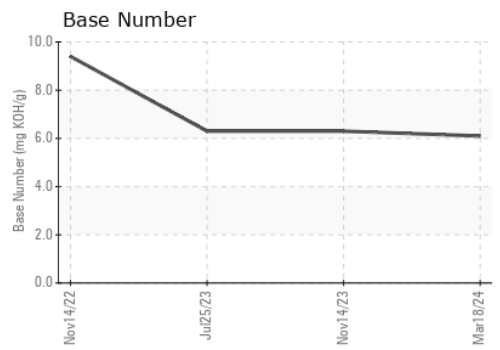
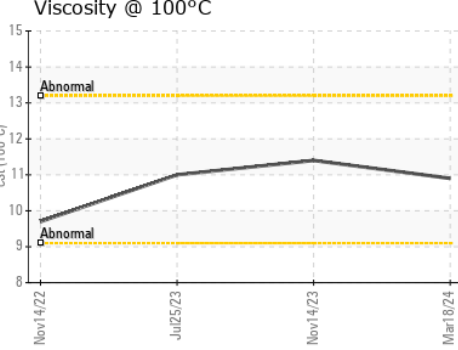
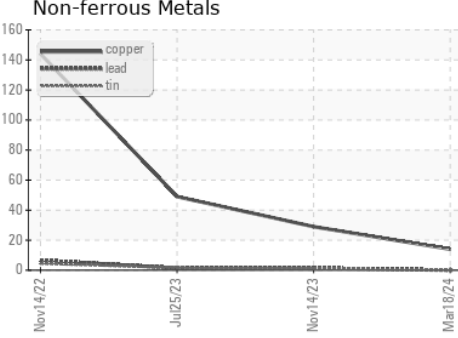
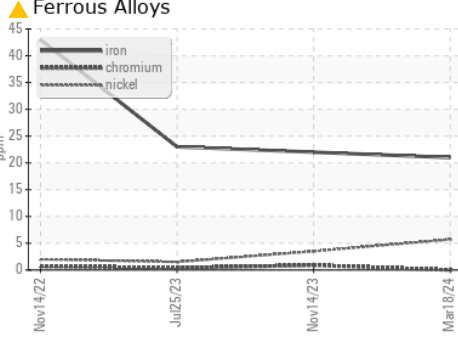
OIL ANALYSIS REPORT



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	10.9	11.4	11.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0116238 **Received** : 12 Apr 2024
Lab Number : 06147027 **Tested** : 15 Apr 2024
Unique Number : 10977105 **Diagnosed** : 15 Apr 2024 - Sean Felton
Test Package : FLEET

PERDUE FARMS - DILLON
 2047 HWY 9 WEST
 DILLON, SC
 US 29536
 Contact: KEVIN HOOKS
 kevin.hooks@perdue.com
 T: (843)841-8069
 F: (843)841-8070

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)