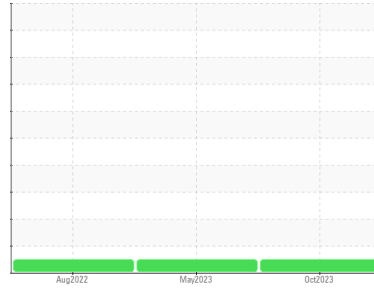


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
{UNASSIGNED}
 Machine Id
2320680 (S/N V090599a)
 Component
1 Diesel Engine
 Fluid
PETRO CANADA DURON ADVANCED 10W30 (8 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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	PCA0108121	PCA0093037	PCA0073675
Sample Date	Client Info	18 Oct 2023	04 May 2023	12 Aug 2022
Machine Age	hrs Client Info	52	52	52
Oil Age	hrs Client Info	52	52	52
Oil Changed	Client Info	N/A	N/A	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	3	5	12
Chromium	ppm ASTM D5185m >20	<1	<1	<1
Nickel	ppm ASTM D5185m >4	0	0	<1
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >3	0	0	<1
Aluminum	ppm ASTM D5185m >20	1	<1	2
Lead	ppm ASTM D5185m >40	0	0	1
Copper	ppm ASTM D5185m >330	0	<1	11
Tin	ppm ASTM D5185m >15	0	<1	<1
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	12	10	435
Barium	ppm ASTM D5185m 0	0	0	3
Molybdenum	ppm ASTM D5185m 60	60	62	77
Manganese	ppm ASTM D5185m 0	0	<1	7
Magnesium	ppm ASTM D5185m 1010	883	949	356
Calcium	ppm ASTM D5185m 1070	1005	1102	1414
Phosphorus	ppm ASTM D5185m 1150	952	1071	1015
Zinc	ppm ASTM D5185m 1270	1203	1295	1173
Sulfur	ppm ASTM D5185m 2060	3019	3890	4009

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	3	4	12
Sodium	ppm ASTM D5185m	0	1	5
Potassium	ppm ASTM D5185m >20	0	<1	3

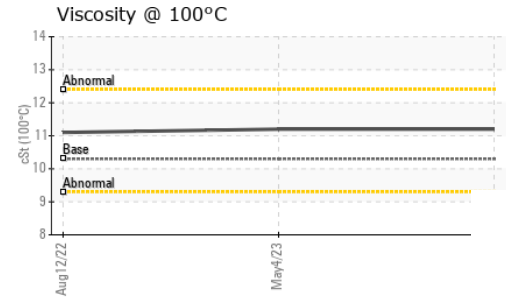
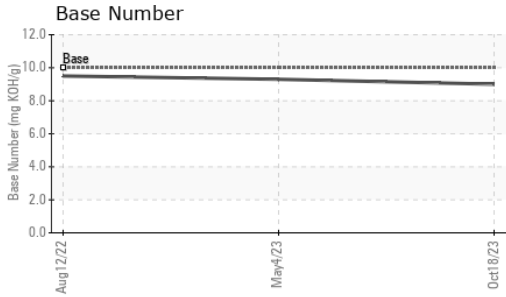
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.1	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	5.4	5.9	5.2
Sulfation	Abs/.1mm *ASTM D7415 >30	17.0	17.2	20.9

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	12.7	13.0	14.4
Base Number (BN)	mg KOH/g ASTM D2896 10.0	9.0	9.3	9.5

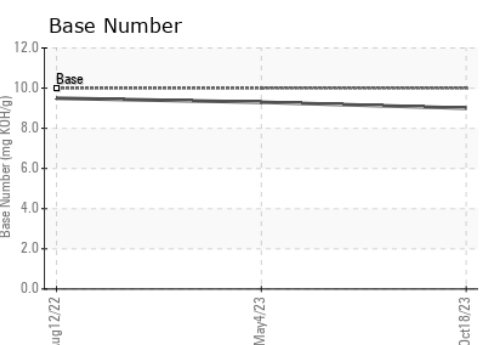
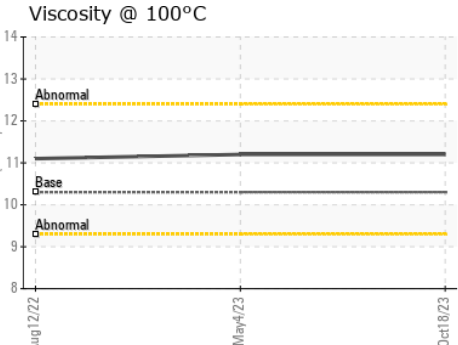
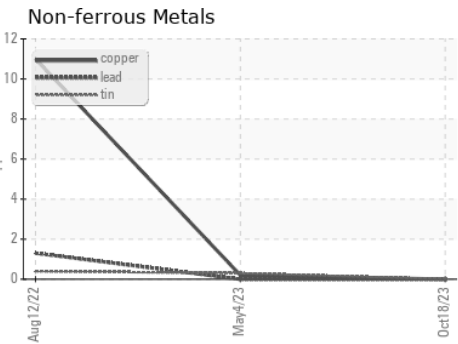
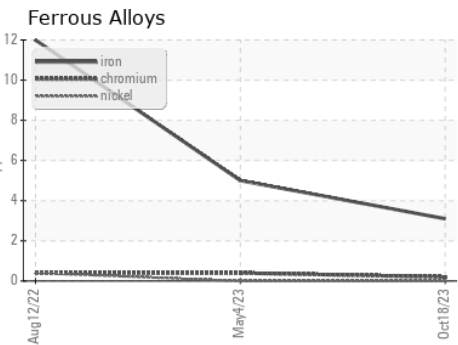
OIL ANALYSIS REPORT



VISUAL	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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	10.3	11.2	11.2	11.1

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108121 **Received** : 08 Nov 2023
Lab Number : **06001408** **Diagnosed** : 09 Nov 2023
Unique Number : 10729768 **Diagnostician** : Wes Davis
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)