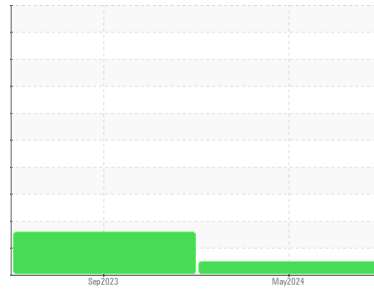


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
2227121
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON UHP 5W30 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

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			PCA0124255	PCA0101156	---
Sample Date	Client Info			22 May 2024	09 Sep 2023	---
Machine Age	mls	Client Info		146342	25733	---
Oil Age	mls	Client Info		20000	20000	---
Oil Changed	Client Info			Not Chngd	Not Chngd	---
Sample Status				NORMAL	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	<1.0	---
Water	WC Method	>0.2		NEG	NEG	---
Glycol	WC Method			NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	27	35	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	1	<1	---
Titanium	ppm	ASTM D5185m		23	<1	---
Silver	ppm	ASTM D5185m	>3	<1	13	---
Aluminum	ppm	ASTM D5185m	>20	4	25	---
Lead	ppm	ASTM D5185m	>40	<1	0	---
Copper	ppm	ASTM D5185m	>330	57	88	---
Tin	ppm	ASTM D5185m	>15	2	4	---
Vanadium	ppm	ASTM D5185m		<1	0	---
Cadmium	ppm	ASTM D5185m		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	131	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	64	46	113	---
Manganese	ppm	ASTM D5185m	0	<1	3	---
Magnesium	ppm	ASTM D5185m	1160	841	680	---
Calcium	ppm	ASTM D5185m	820	1304	1489	---
Phosphorus	ppm	ASTM D5185m	1160	973	674	---
Zinc	ppm	ASTM D5185m	1260	1252	830	---
Sulfur	ppm	ASTM D5185m	3000	3103	2250	---

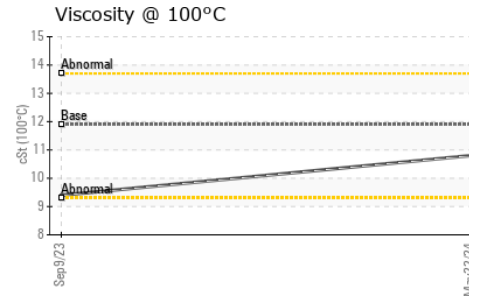
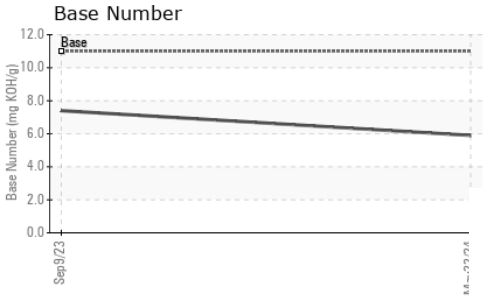
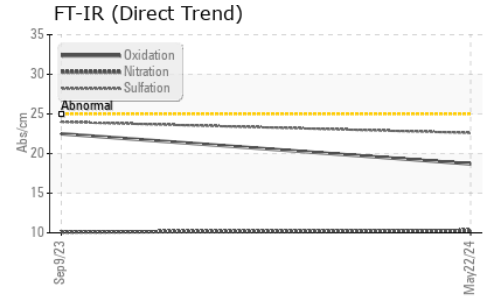
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	▲ 49	---
Sodium	ppm	ASTM D5185m		3	4	---
Potassium	ppm	ASTM D5185m	>20	7	69	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	10.3	10.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	24.0	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	22.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	5.9	7.4	---



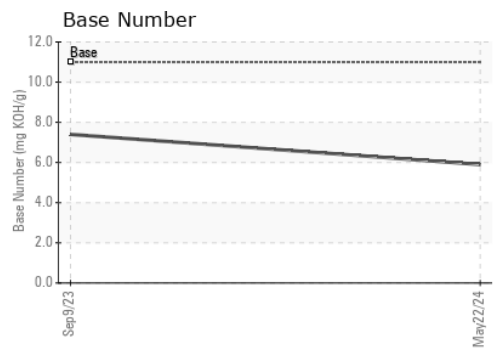
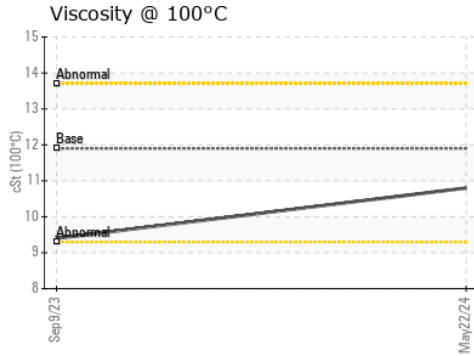
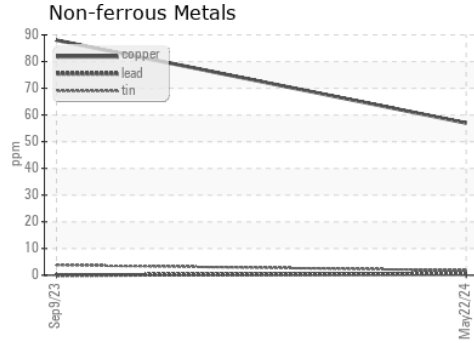
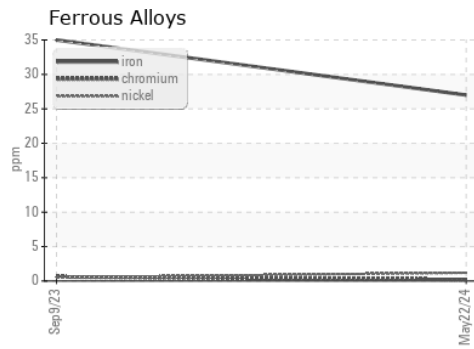
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.9	10.8	9.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0124255 **Received** : 23 May 2024
Lab Number : 06188959 **Tested** : 24 May 2024
Unique Number : 11045711 **Diagnosed** : 24 May 2024 - Wes Davis
Test Package : FLEET

PERDUE FARMS - SALISBURY
 7036 ZION CHURCH ROAD
 SALISBURY, MD
 US 21802
 Contact: RICHARD O'NEAL
 richard.oneal@perdue.com
 T: (410)543-3628
 F: (410)341-2164

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)