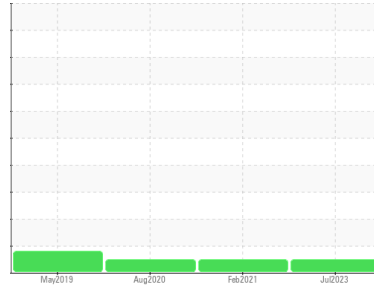


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
1926715

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

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 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	PCA0098170	PCA05182217	PCA0010256
Sample Date	Client Info	16 Jul 2023	13 Feb 2021	03 Aug 2020
Machine Age	mls	Client Info	0	0
Oil Age	mls	Client Info	0	0
Oil Changed	Client Info	Changed	N/A	N/A
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	49	24	22
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >4	<1	<1	<1
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m >3	0	<1	<1
Aluminum	ppm	ASTM D5185m >20	2	2	0
Lead	ppm	ASTM D5185m >40	2	1	1
Copper	ppm	ASTM D5185m >330	7	12	24
Tin	ppm	ASTM D5185m >15	1	2	2
Antimony	ppm	ASTM D5185m	---	0	0
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 2	0	3	2
Barium	ppm	ASTM D5185m 0	0	0	<1
Molybdenum	ppm	ASTM D5185m 50	57	60	63
Manganese	ppm	ASTM D5185m 0	<1	<1	<1
Magnesium	ppm	ASTM D5185m 950	861	913	846
Calcium	ppm	ASTM D5185m 1050	1046	1136	1122
Phosphorus	ppm	ASTM D5185m 995	934	978	900
Zinc	ppm	ASTM D5185m 1180	1160	1203	1158
Sulfur	ppm	ASTM D5185m 2600	2461	2393	2419

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	6	3	5
Sodium	ppm	ASTM D5185m	16	6	7
Potassium	ppm	ASTM D5185m >20	2	<1	2

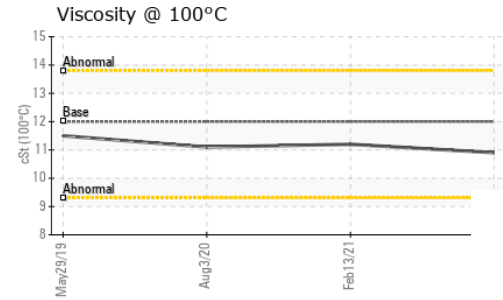
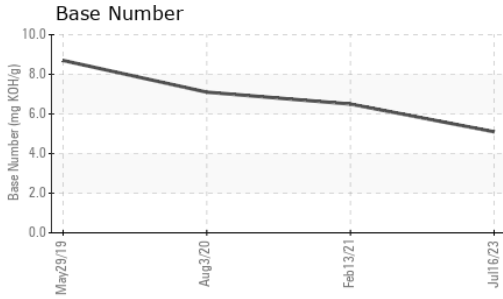
INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844 >3	0.8	0.8	0.8
Nitration	Abs/cm	*ASTM D7624 >20	11.1	10.2	10.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.3	22.9	22.8

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	20.0	18.2	18.8
Base Number (BN)	mg KOH/g	ASTM D2896	5.1	6.5	7.1

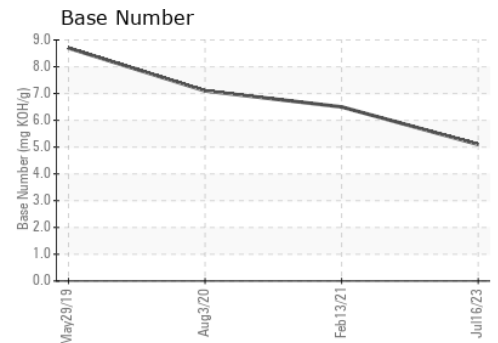
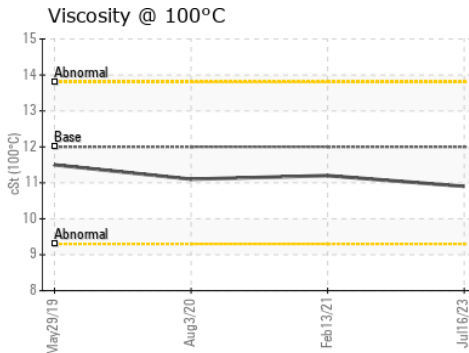
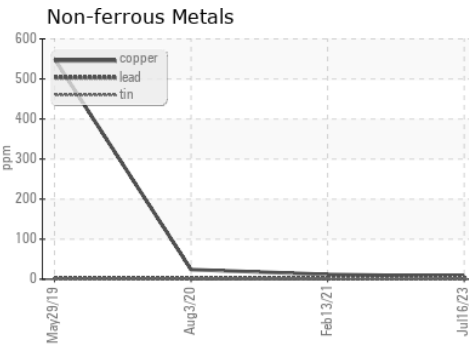
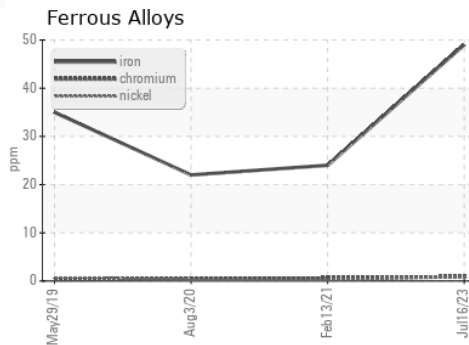
OIL ANALYSIS REPORT



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	12.00	10.9	11.2	11.1

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0098170 **Received** : 17 Jul 2023
Lab Number : **05899611** **Diagnosed** : 18 Jul 2023
Unique Number : 10560967 **Diagnostician** : Jonathan Hester
Test Package : FLEET

PERDUE FARMS - PRINCE GEORGE
 6012 HARDWARE DR
 PRINCE GEORGE, VA
 US 23875
 Contact: MICHAEL DAVIS
 MICHAELP.DAVIS@PERDUE.COM

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)

T:
F: