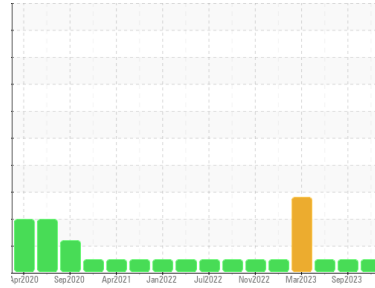


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
1926742
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (35 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	PCA0112407	PCA0107399	PCA0099927
Sample Date	Client Info	03 Dec 2023	24 Sep 2023	06 Jun 2023
Machine Age	mls Client Info	0	0	0
Oil Age	mls Client Info	40000	20000	40000
Oil Changed	Client Info	Changed	Not Changd	Changed
Sample Status		NORMAL	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	25	16	24
Chromium	ppm ASTM D5185m >20	<1	<1	<1
Nickel	ppm ASTM D5185m >2	<1	<1	0
Titanium	ppm ASTM D5185m	1	1	4
Silver	ppm ASTM D5185m >2	<1	<1	0
Aluminum	ppm ASTM D5185m >25	6	4	5
Lead	ppm ASTM D5185m >40	2	2	2
Copper	ppm ASTM D5185m >330	8	6	8
Tin	ppm ASTM D5185m >15	1	1	2
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	<1	<1	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	0	0	2
Barium	ppm ASTM D5185m 0	0	12	0
Molybdenum	ppm ASTM D5185m 50	61	62	60
Manganese	ppm ASTM D5185m 0	<1	<1	<1
Magnesium	ppm ASTM D5185m 950	958	954	908
Calcium	ppm ASTM D5185m 1050	1075	1091	1193
Phosphorus	ppm ASTM D5185m 995	975	1016	995
Zinc	ppm ASTM D5185m 1180	1233	1244	1225
Sulfur	ppm ASTM D5185m 2600	3071	3026	3105

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	6	4	6
Sodium	ppm ASTM D5185m	12	6	13
Potassium	ppm ASTM D5185m >20	5	5	3

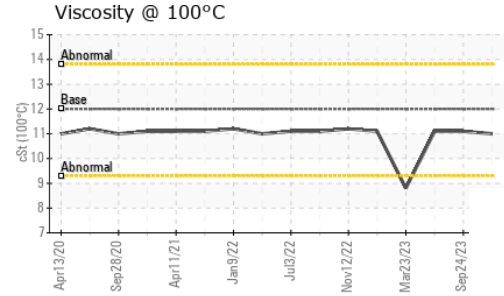
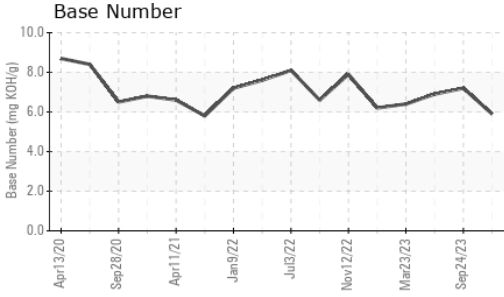
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.6	0.5	0.6
Nitration	Abs/cm *ASTM D7624 >20	9.2	8.7	9.4
Sulfation	Abs/.1mm *ASTM D7415 >30	21.8	20.2	20.6

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	17.5	16.1	16.6
Base Number (BN)	mg KOH/g ASTM D2896	5.9	7.2	6.9

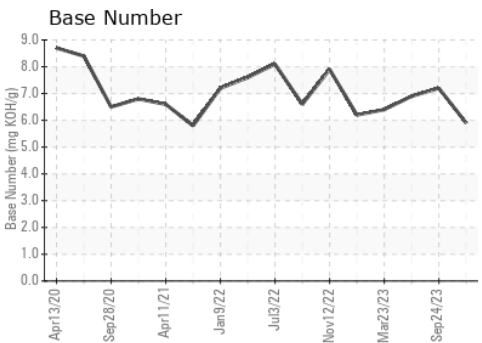
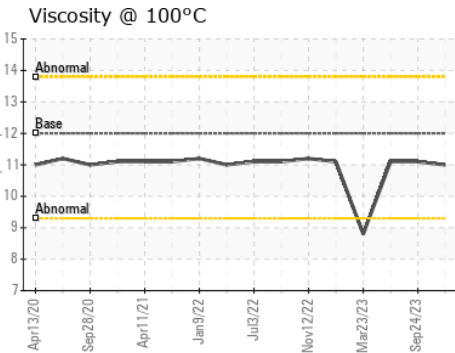
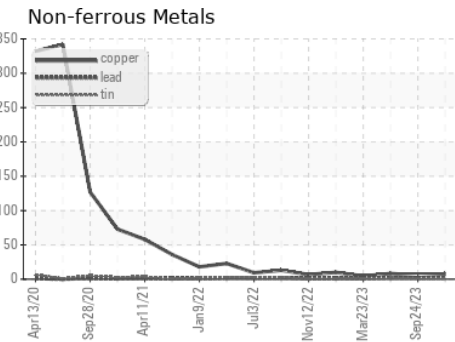
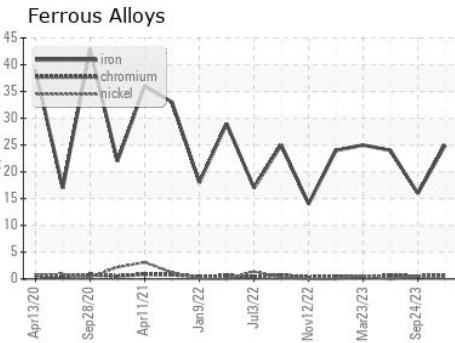
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.0	11.1

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : PCA0112407
 Lab Number : 06036673
 Unique Number : 10791902
 Test Package : FLEET
 Recieved : 15 Dec 2023
 Diagnosed : 18 Dec 2023
 Diagnostician : Wes Davis

PERDUE FARMS - GEORGETOWN
 20621 SAVANAH RD
 GEORGETOWN, DE
 US 19947
 Contact: ROBERT LOCKWOOD
 Robert.Lockwood@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: