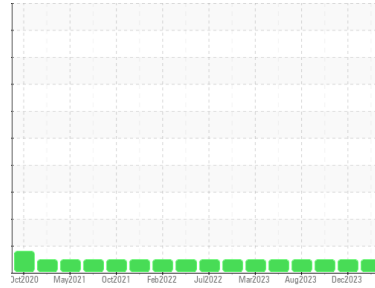


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
2026867
 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	PCA0119527	PCA0110956	PCA0106403	
Sample Date	Client Info	18 Feb 2024	10 Dec 2023	26 Sep 2023	
Machine Age	mls	Client Info	405452	382251	355117
Oil Age	mls	Client Info	23000	45860	18726
Oil Changed	Client Info	Not Changed	Changed	Not 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	14	29	16
Chromium	ppm ASTM D5185m >20	<1	<1	<1
Nickel	ppm ASTM D5185m >2	1	2	2
Titanium	ppm ASTM D5185m	33	5	<1
Silver	ppm ASTM D5185m >2	<1	<1	<1
Aluminum	ppm ASTM D5185m >25	2	2	2
Lead	ppm ASTM D5185m >40	3	2	2
Copper	ppm ASTM D5185m >330	10	23	21
Tin	ppm ASTM D5185m >15	2	2	2
Vanadium	ppm ASTM D5185m	<1	<1	0
Cadmium	ppm ASTM D5185m	<1	<1	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	13	6	0
Barium	ppm ASTM D5185m 0	0	0	12
Molybdenum	ppm ASTM D5185m 50	29	57	62
Manganese	ppm ASTM D5185m 0	<1	<1	<1
Magnesium	ppm ASTM D5185m 950	608	899	951
Calcium	ppm ASTM D5185m 1050	1350	1114	1097
Phosphorus	ppm ASTM D5185m 995	923	932	1045
Zinc	ppm ASTM D5185m 1180	1056	1219	1267
Sulfur	ppm ASTM D5185m 2600	3617	3250	3219

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	4	6	4
Sodium	ppm ASTM D5185m	3	1	0
Potassium	ppm ASTM D5185m >20	3	3	4

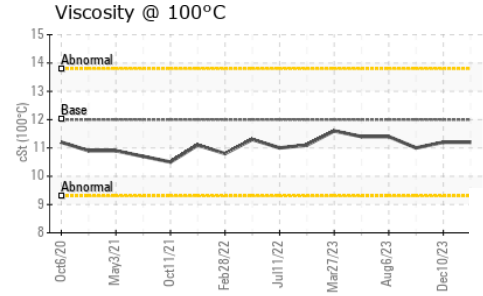
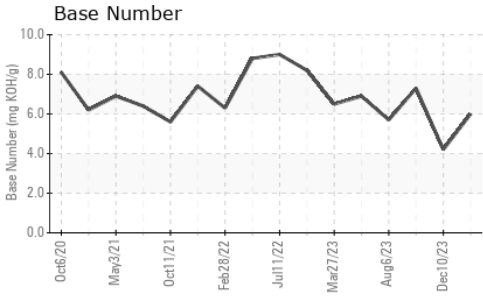
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.4	0.6	0.4
Nitration	Abs/cm *ASTM D7624 >20	10.2	10.7	9.6
Sulfation	Abs/.1mm *ASTM D7415 >30	21.8	22.7	20.3

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	17.4	18.7	16.4
Base Number (BN)	mg KOH/g ASTM D2896	6.0	4.2	7.3

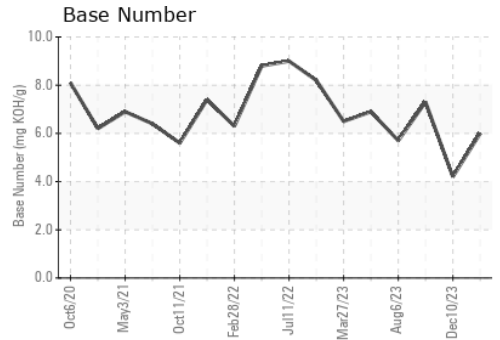
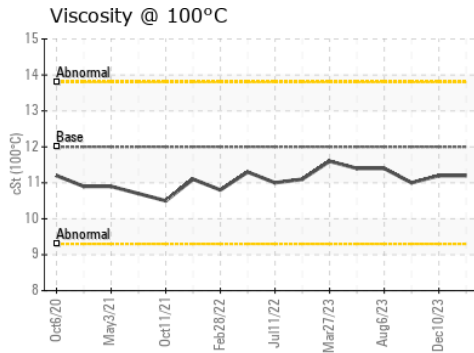
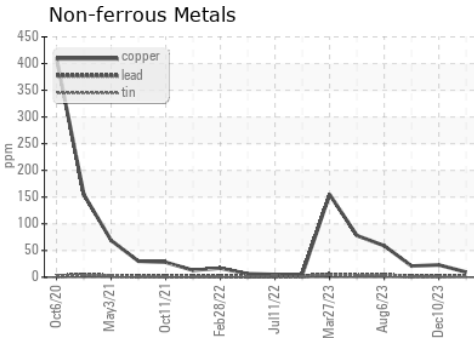
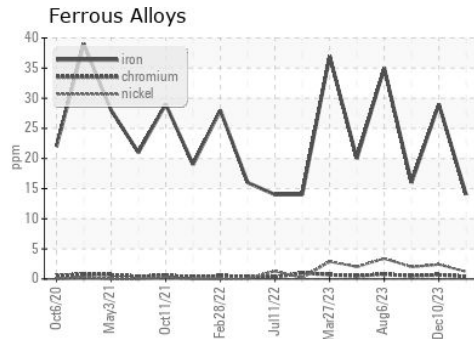
OIL ANALYSIS REPORT



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	11.2	11.0

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0119527
Lab Number : **06118053**
Unique Number : 10926886
Test Package : FLEET

Received : 14 Mar 2024
Tested : 15 Mar 2024
Diagnosed : 15 Mar 2024 - 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: