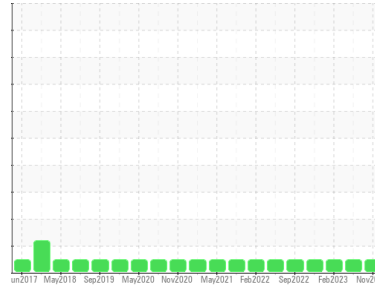


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Area
FLEET
 Machine Id
26530
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- 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	PCA0108197	PCA0095978	PCA0085276
Sample Date	Client Info	30 Nov 2023	24 May 2023	16 Feb 2023
Machine Age	mls Client Info	564568	524522	504039
Oil Age	mls Client Info	40046	41521	20768
Oil Changed	Client Info	Changed	Changed	Not Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<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	17	18	10
Chromium	ppm ASTM D5185m >20	<1	<1	0
Nickel	ppm ASTM D5185m >4	0	1	<1
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >3	<1	<1	0
Aluminum	ppm ASTM D5185m >20	5	5	3
Lead	ppm ASTM D5185m >40	<1	2	1
Copper	ppm ASTM D5185m >330	5	4	2
Tin	ppm ASTM D5185m >15	<1	1	0
Vanadium	ppm ASTM D5185m	0	<1	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	2	2	<1
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 50	57	59	60
Manganese	ppm ASTM D5185m 0	<1	<1	<1
Magnesium	ppm ASTM D5185m 950	915	969	948
Calcium	ppm ASTM D5185m 1050	1021	1118	1156
Phosphorus	ppm ASTM D5185m 995	990	1055	984
Zinc	ppm ASTM D5185m 1180	1232	1337	1265
Sulfur	ppm ASTM D5185m 2600	2760	3070	3382

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	8	7	4
Sodium	ppm ASTM D5185m	10	12	5
Potassium	ppm ASTM D5185m >20	2	3	<1

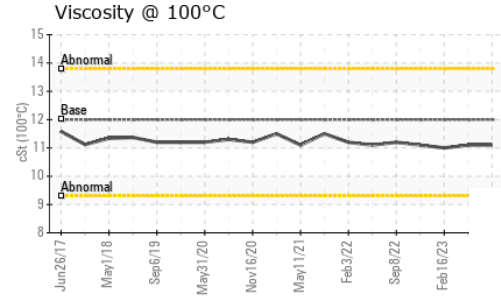
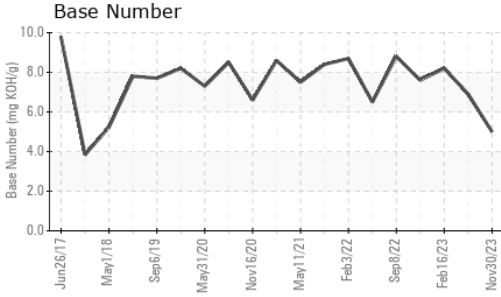
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.5	0.5	0.4
Nitration	Abs/cm *ASTM D7624 >20	9.1	9.5	8.2
Sulfation	Abs/.1mm *ASTM D7415 >30	21.1	21.5	19.2

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	17.4	17.9	15.4
Base Number (BN)	mg KOH/g ASTM D2896	5.0	6.9	8.2

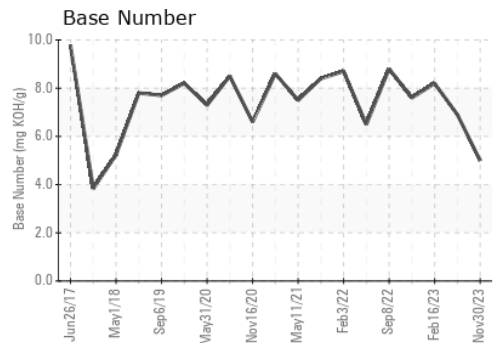
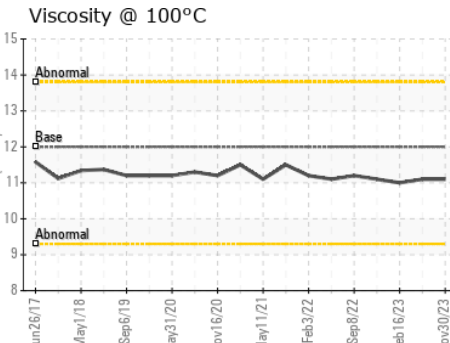
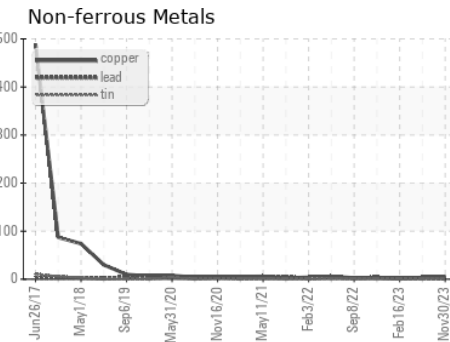
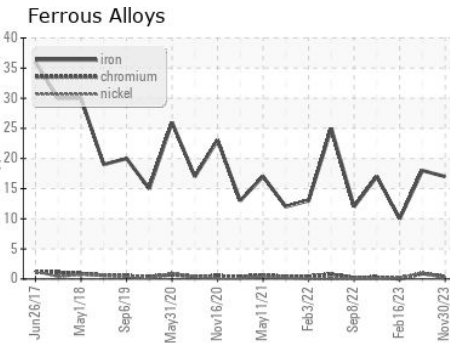
OIL ANALYSIS REPORT



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

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108197
Lab Number : 06029258
Unique Number : 10779049
Test Package : FLEET

Received : 08 Dec 2023
Diagnosed : 11 Dec 2023
Diagnostician : Wes Davis

PERDUE FARMS - ACCOMAC
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 ACCOMAC, VA
 US 23301
 Contact: PEGGY KIMES
 peggy.kimes@perdue.com
 T: (757)787-5304
 F: (757)787-5208

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)