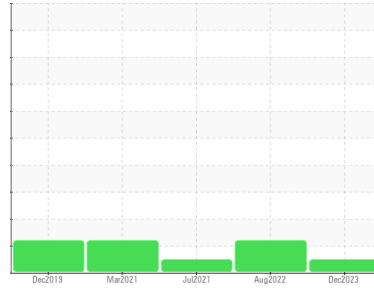


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
26522

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		PCA0112295	PCA0073673	PCA0055263
Sample Date	Client Info		08 Dec 2023	12 Aug 2022	23 Jul 2021
Machine Age	mls Client Info		475407	475407	475407
Oil Age	mls Client Info		475407	475407	0
Oil Changed	Client Info		N/A	N/A	Changed
Sample Status			NORMAL	ABNORMAL	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	55	59	29
Chromium	ppm ASTM D5185m	>20	1	1	<1
Nickel	ppm ASTM D5185m	>4	<1	0	<1
Titanium	ppm ASTM D5185m		0	0	0
Silver	ppm ASTM D5185m	>3	0	0	<1
Aluminum	ppm ASTM D5185m	>20	6	8	4
Lead	ppm ASTM D5185m	>40	1	4	2
Copper	ppm ASTM D5185m	>330	8	8	8
Tin	ppm ASTM D5185m	>15	<1	2	1
Antimony	ppm ASTM D5185m		---	---	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	1	2	4
Barium	ppm ASTM D5185m	0	0	0	0
Molybdenum	ppm ASTM D5185m	50	61	62	60
Manganese	ppm ASTM D5185m	0	1	<1	<1
Magnesium	ppm ASTM D5185m	950	944	884	871
Calcium	ppm ASTM D5185m	1050	1113	1126	1028
Phosphorus	ppm ASTM D5185m	995	1157	1017	881
Zinc	ppm ASTM D5185m	1180	1326	1290	1094
Sulfur	ppm ASTM D5185m	2600	2679	2365	2118

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	8	6	3
Sodium	ppm ASTM D5185m		16	26	16
Potassium	ppm ASTM D5185m	>20	2	3	3

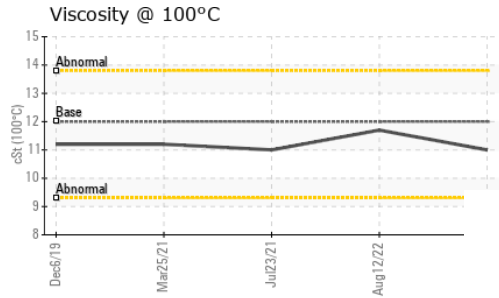
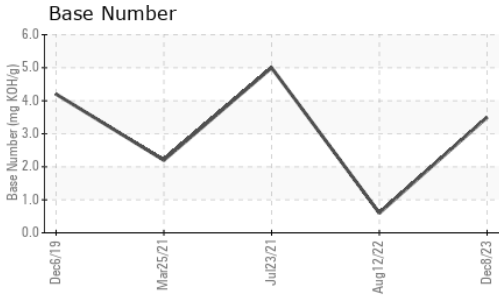
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3	0.4	0.3	0.3
Nitration	Abs/cm *ASTM D7624	>20	11.1	18.9	10.2
Sulfation	Abs/.1mm *ASTM D7415	>30	24.5	31.1	22.2

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	22.7	37.4	19.8
Base Number (BN)	mg KOH/g ASTM D2896		3.5	▲ 0.6	5

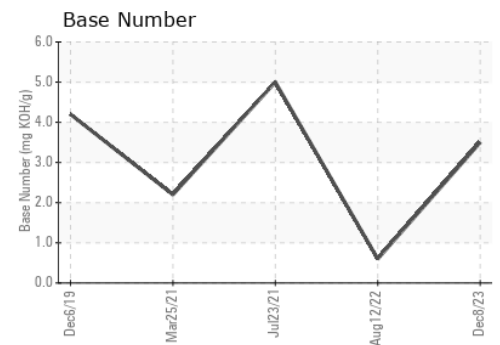
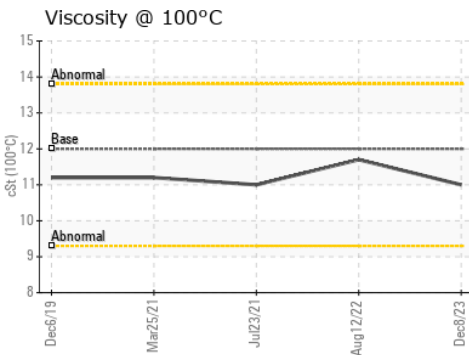
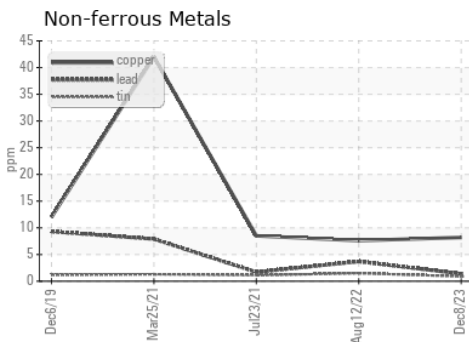
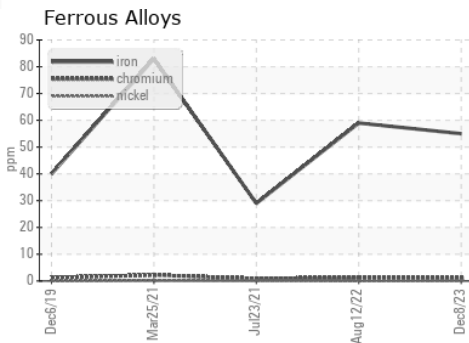
OIL ANALYSIS REPORT



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	11.0	11.7

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0112295 **Received** : 12 Dec 2023
Lab Number : **06032182** **Diagnosed** : 19 Dec 2023
Unique Number : 10781973 **Diagnostician** : Wes Davis
Test Package : FLEET

PERDUE FARMS - DILLON
 2047 HWY 9 WEST
 DILLON, SC
 US 29536
 Contact: KEVIN HOOKS
 kevin.hooks@perdue.com
 T: (843)841-8069
 F: (843)841-8070

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)