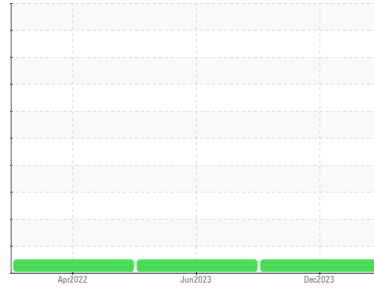


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
2026829
 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			PCA0108060	PCA0097154	PCA0071241
Sample Date	Client Info			28 Dec 2023	05 Jun 2023	19 Apr 2022
Machine Age	mls Client Info			264046	0	142179
Oil Age	mls Client Info			40000	41345	40000
Oil Changed	Client Info			Changed	N/A	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		32	35	50
Chromium	ppm ASTM D5185m	>20		<1	<1	1
Nickel	ppm ASTM D5185m	>4		<1	0	6
Titanium	ppm ASTM D5185m			0	0	<1
Silver	ppm ASTM D5185m	>3		0	0	1
Aluminum	ppm ASTM D5185m	>20		5	4	7
Lead	ppm ASTM D5185m	>40		1	<1	2
Copper	ppm ASTM D5185m	>330		9	9	33
Tin	ppm ASTM D5185m	>15		1	<1	2
Vanadium	ppm ASTM D5185m			0	0	0
Cadmium	ppm ASTM D5185m			0	0	0

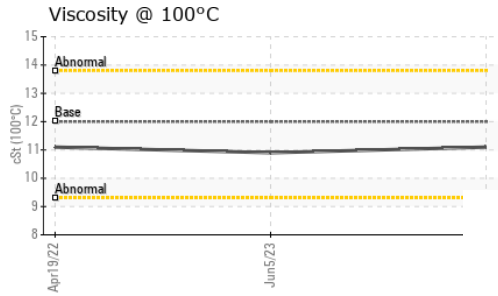
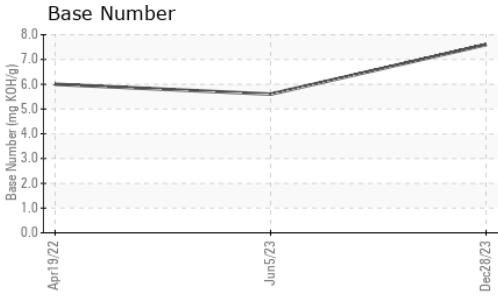
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2		0	0	6
Barium	ppm ASTM D5185m	0		0	0	0
Molybdenum	ppm ASTM D5185m	50		56	59	59
Manganese	ppm ASTM D5185m	0		<1	<1	2
Magnesium	ppm ASTM D5185m	950		887	931	960
Calcium	ppm ASTM D5185m	1050		1049	1167	1239
Phosphorus	ppm ASTM D5185m	995		987	911	952
Zinc	ppm ASTM D5185m	1180		1156	1218	1172
Sulfur	ppm ASTM D5185m	2600		2854	3326	2380

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25		6	4	6
Sodium	ppm ASTM D5185m			2	3	3
Potassium	ppm ASTM D5185m	>20		4	5	11

INFRA-RED		method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3		0.6	0.5	0.6
Nitration	Abs/cm *ASTM D7624	>20		8.3	10.1	13.1
Sulfation	Abs/.1mm *ASTM D7415	>30		19.8	21.9	24.4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25		15.0	18.6	21.2
Base Number (BN)	mg KOH/g ASTM D2896			7.6	5.6	6.0

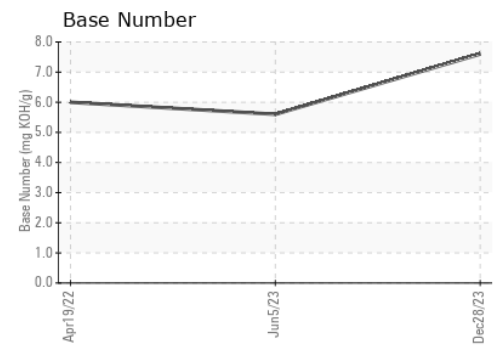
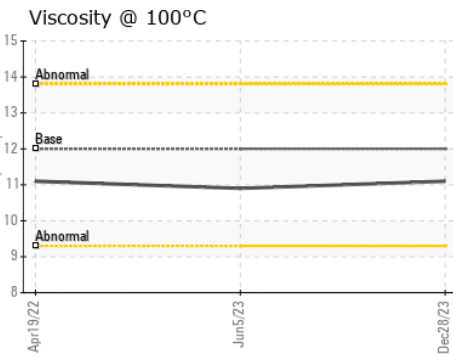
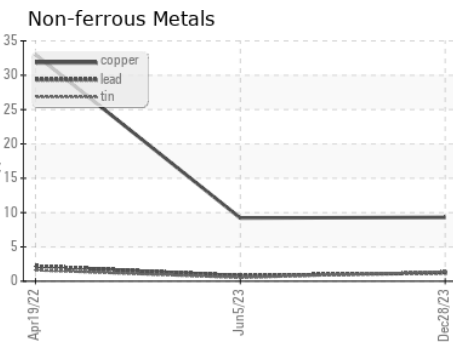
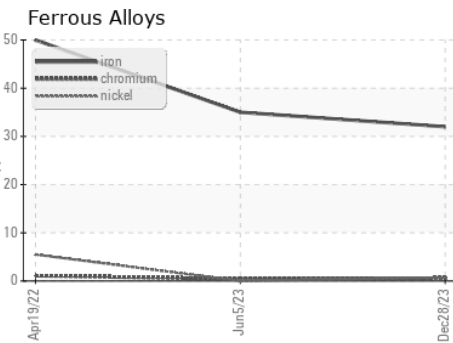
OIL ANALYSIS REPORT



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	11.1	10.9

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0108060 **Received** : 08 Jan 2024
Lab Number : 06053484 **Diagnosed** : 09 Jan 2024
Unique Number : 10819433 **Diagnostician** : Wes Davis
Test Package : FLEET

PERDUE FARMS - Lewiston
 210 GRIFFINS QUARTER RD
 LEWISTON, NC
 US 27849
 Contact: NELSON WALLACE
 nelson.wallace2@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)

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F: