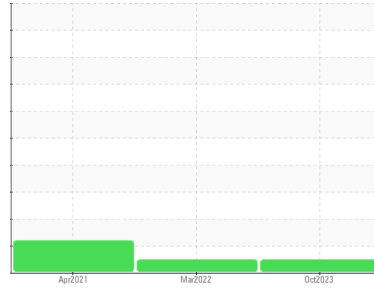


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
FLEET
Machine Id
2126896

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			PCA0079798	PCA0051421	PCA0040619
Sample Date	Client Info			11 Oct 2023	22 Mar 2022	09 Apr 2021
Machine Age	mls	Client Info		234716	115676	32336
Oil Age	mls	Client Info		0	0	32336
Oil Changed	Client Info			N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

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	63	62	61
Chromium	ppm	ASTM D5185m	>20	1	1	1
Nickel	ppm	ASTM D5185m	>4	2	1	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	1
Aluminum	ppm	ASTM D5185m	>20	3	10	30
Lead	ppm	ASTM D5185m	>40	3	4	6
Copper	ppm	ASTM D5185m	>330	10	32	257
Tin	ppm	ASTM D5185m	>15	2	4	8
Antimony	ppm	ASTM D5185m		---	---	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0

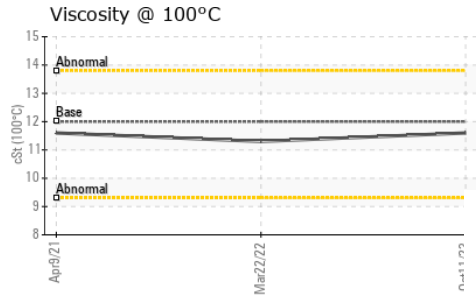
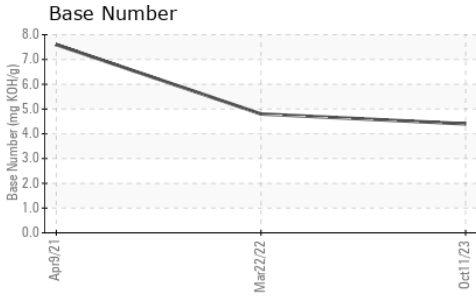
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<1	1	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	63	57	43
Manganese	ppm	ASTM D5185m	0	1	2	5
Magnesium	ppm	ASTM D5185m	950	953	865	519
Calcium	ppm	ASTM D5185m	1050	1140	1102	1595
Phosphorus	ppm	ASTM D5185m	995	1009	867	859
Zinc	ppm	ASTM D5185m	1180	1287	1066	1104
Sulfur	ppm	ASTM D5185m	2600	2488	1765	1993

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	6	25
Sodium	ppm	ASTM D5185m		5	4	2
Potassium	ppm	ASTM D5185m	>20	6	18	▲ 86

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	1.1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	13.0	14.5	12.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.5	27.1	26.4

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.1	24.6	26.5
Base Number (BN)	mg KOH/g	ASTM D2896		4.4	4.8	7.6

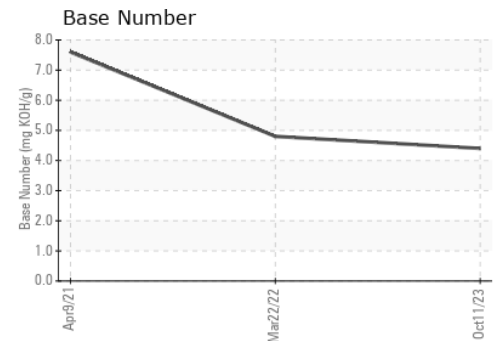
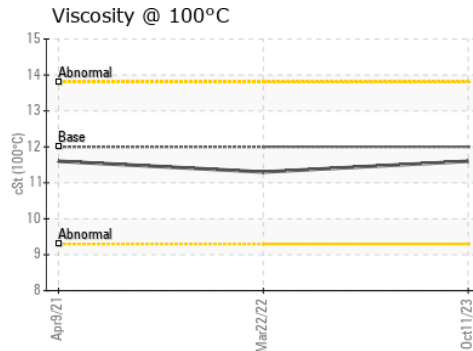
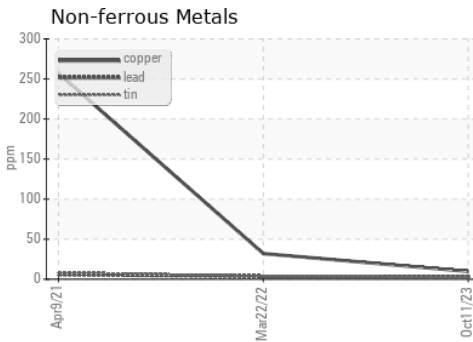
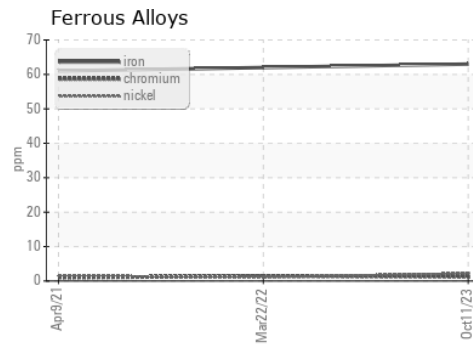
OIL ANALYSIS REPORT



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	11.6	11.3	11.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0079798
Lab Number : **06081104**
Unique Number : 10863195
Test Package : FLEET
Received : 06 Feb 2024
Tested : 06 Feb 2024
Diagnosed : 06 Feb 2024 - Wes Davis

PERDUE FARMS - COFIELD
 242 PERDUE RD
 COFIELD, NC
 US 27922
 Contact: JOHNNY LASSITER
 johnny.lassiter@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: