

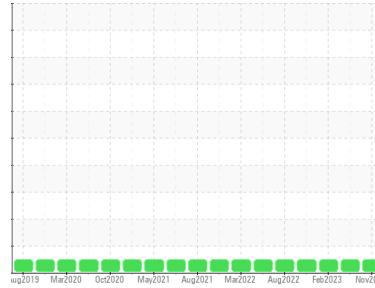
# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Area  
**FLEET**  
Machine Id  
**26535**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (40 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			<b>PCA0108198</b>	PCA0095971	PCA0085264
Sample Date	Client Info			<b>30 Nov 2023</b>	11 May 2023	02 Feb 2023
Machine Age	mls	Client Info		<b>616917</b>	554558	527335
Oil Age	mls	Client Info		<b>40228</b>	27223	30203
Oil Changed	Client Info			<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>6.0		<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>17</b>	16	23
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>5</b>	5	7
Lead	ppm	ASTM D5185m	>40	<b>0</b>	1	<1
Copper	ppm	ASTM D5185m	>330	<b>4</b>	5	6
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

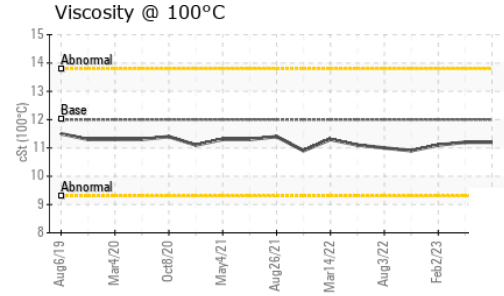
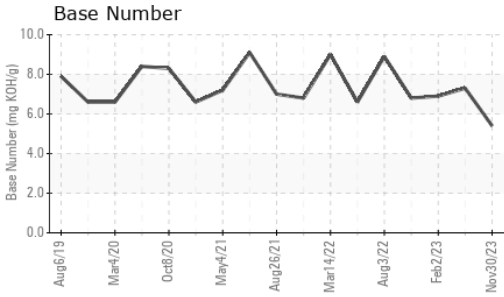
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>2</b>	3	<1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>57</b>	62	64
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	950	<b>910</b>	1006	937
Calcium	ppm	ASTM D5185m	1050	<b>1013</b>	1181	1190
Phosphorus	ppm	ASTM D5185m	995	<b>990</b>	1046	1059
Zinc	ppm	ASTM D5185m	1180	<b>1225</b>	1281	1298
Sulfur	ppm	ASTM D5185m	2600	<b>2684</b>	3264	2959

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>4</b>	5	6
Sodium	ppm	ASTM D5185m		<b>10</b>	12	14
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	3	7

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.8</b>	9.0	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.3</b>	20.5	20.2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.2</b>	17.0	16.8
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.4</b>	7.3	6.9

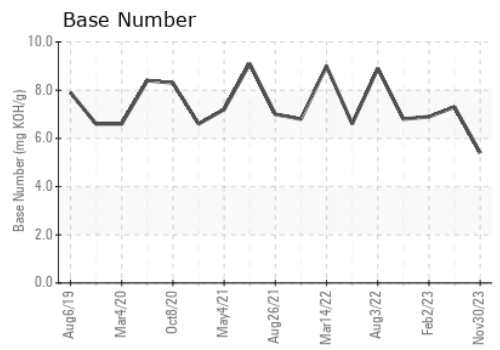
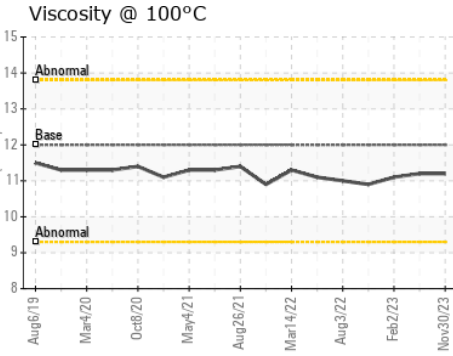
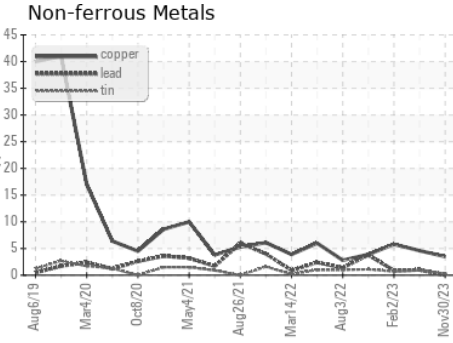
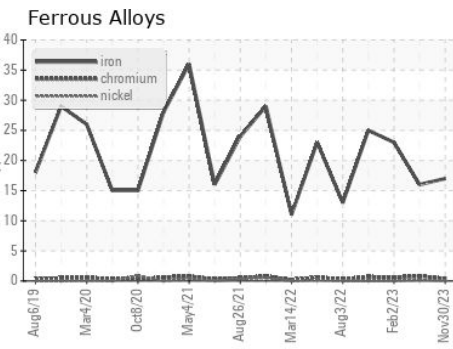
# OIL ANALYSIS REPORT



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	11.1

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0108198 **Received** : 08 Dec 2023  
**Lab Number** : 06029259 **Diagnosed** : 11 Dec 2023  
**Unique Number** : 10779050 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**PERDUE FARMS - ACCOMAC**  
 22520 LANKFORD HWY  
 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)