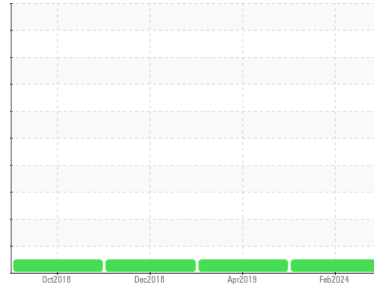


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**VOLVO VLN 26631 (S/N 4V4MC9EH5JN896017)**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (--- 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>PCA0118412</b>	PCA0000867	PCAMF019349
Sample Date	Client Info		<b>29 Feb 2024</b>	17 Apr 2019	29 Dec 2018
Machine Age	mls	Client Info	<b>616299</b>	121886	91058
Oil Age	mls	Client Info	<b>20000</b>	20000	40000
Oil Changed	Client Info		<b>Changed</b>	N/A	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>28</b>	32	54
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m >2	<b>0</b>	<1	<1
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>2</b>	7	18
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	2	1
Copper	ppm	ASTM D5185m >330	<b>6</b>	48	141
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	1	2
Antimony	ppm	ASTM D5185m	<b>---</b>	0	0
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>6</b>	2	4
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>58</b>	55	58
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m 950	<b>867</b>	888	855
Calcium	ppm	ASTM D5185m 1050	<b>1062</b>	1052	1175
Phosphorus	ppm	ASTM D5185m 995	<b>1003</b>	850	735
Zinc	ppm	ASTM D5185m 1180	<b>1205</b>	1084	1080
Sulfur	ppm	ASTM D5185m 2600	<b>3321</b>	1871	1778

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>5</b>	5	8
Sodium	ppm	ASTM D5185m	<b>4</b>	8	8
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	15	49

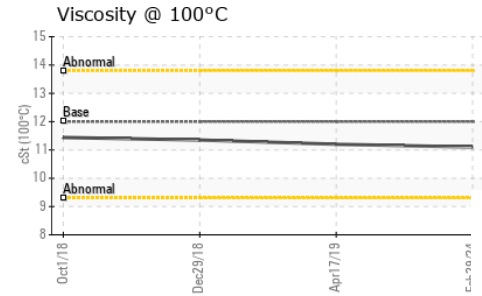
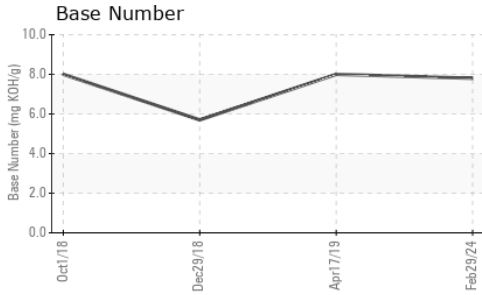
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	0.3	0.8
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.5</b>	7.4	10.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>18.5</b>	18.8	22.9

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>14.6</b>	14.7	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	<b>7.8</b>	8	5.7

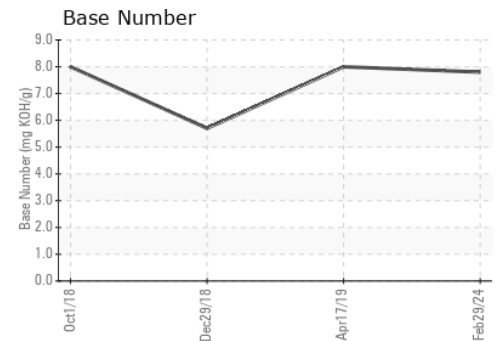
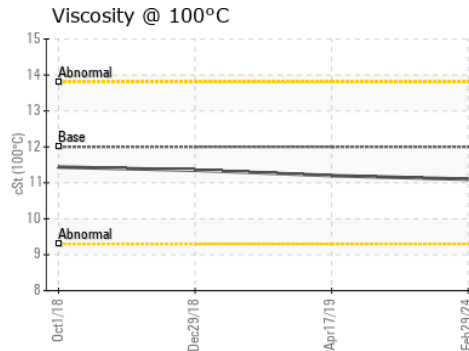
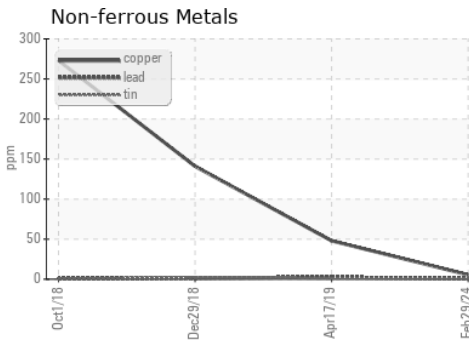
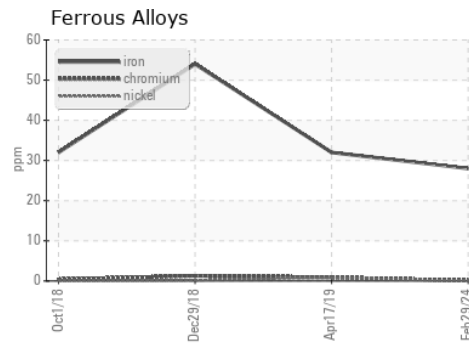
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.1</b>	11.2	11.35

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0118412      **Received** : 13 Mar 2024  
**Lab Number** : **06117709**      **Tested** : 14 Mar 2024  
**Unique Number** : 10926542      **Diagnosed** : 14 Mar 2024 - Wes Davis  
**Test Package** : FLEET

**PERDUE FARMS - SALISBURY**  
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 SALISBURY, MD  
 US 21802  
 Contact: RICHARD O'NEAL  
 richard.oneal@perdue.com  
 T: (410)543-3628  
 F: (410)341-2164

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)