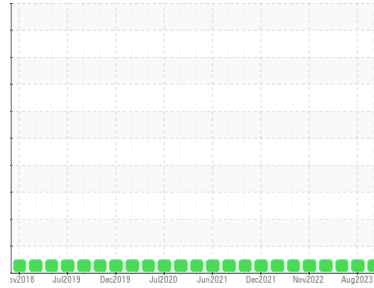


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**VOLVO VNR 26628 (S/N 4VHWP9EH9JN896041)**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (36 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>PCA0118419</b>	PCA0101164	PCA0092469
Sample Date	Client Info		<b>11 Mar 2024</b>	30 Aug 2023	15 May 2023
Machine Age	mls	Client Info	<b>530779</b>	491743	0
Oil Age	mls	Client Info	<b>20000</b>	15000	20000
Oil Changed	Client Info		<b>N/A</b>	Changed	N/A
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>54</b>	69	43
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>4</b>	4	5
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>7</b>	11	6
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	5	2
Copper	ppm	ASTM D5185m >330	<b>10</b>	10	8
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	2	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</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>4</b>	0	2
Barium	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>53</b>	54	55
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	2	<1
Magnesium	ppm	ASTM D5185m 950	<b>802</b>	905	895
Calcium	ppm	ASTM D5185m 1050	<b>1086</b>	1151	1126
Phosphorus	ppm	ASTM D5185m 995	<b>848</b>	936	936
Zinc	ppm	ASTM D5185m 1180	<b>1037</b>	1253	1199
Sulfur	ppm	ASTM D5185m 2600	<b>2790</b>	3130	3219

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>7</b>	6	6
Sodium	ppm	ASTM D5185m	<b>18</b>	27	18
Potassium	ppm	ASTM D5185m >20	<b>2</b>	5	3

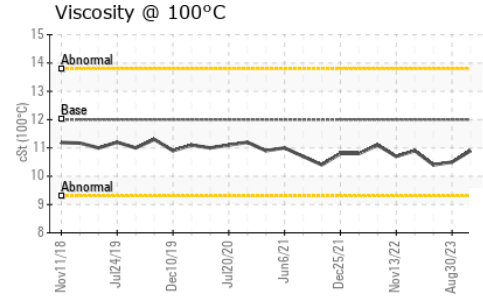
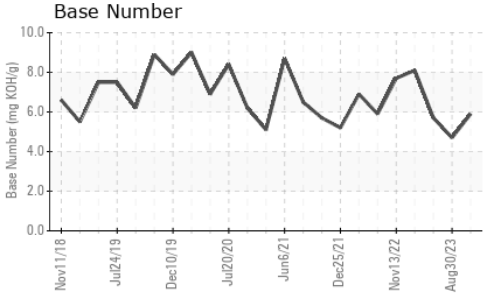
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.6</b>	0.9	0.7
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.8</b>	11.2	10.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.2</b>	23.2	23.4

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>18.9</b>	19.5	19.3
Base Number (BN)	mg KOH/g	ASTM D2896	<b>5.9</b>	4.7	5.7

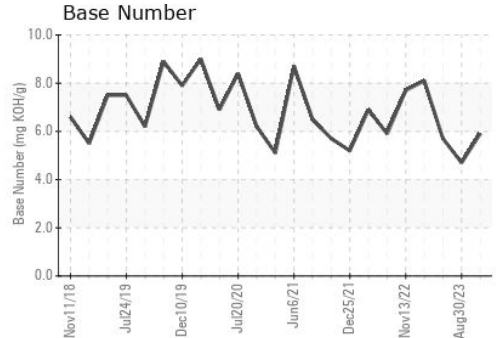
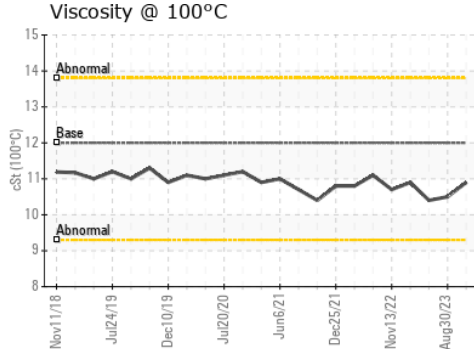
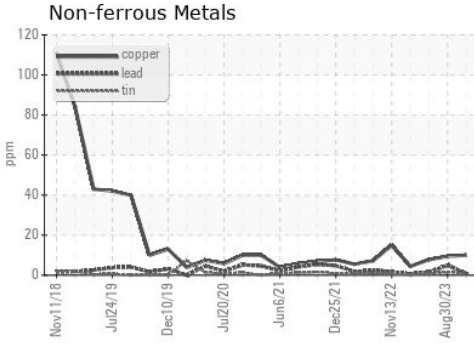
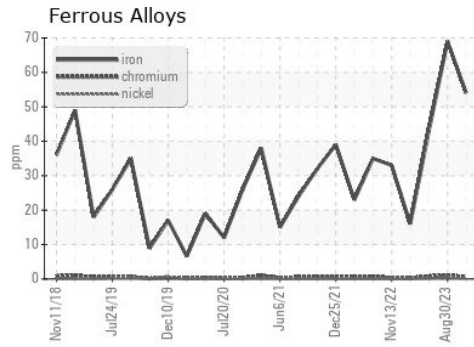
# OIL ANALYSIS REPORT



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	10.9	10.5

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0118419  
**Lab Number** : **06119232**  
**Unique Number** : 10928065  
**Test Package** : FLEET

**Received** : 15 Mar 2024  
**Tested** : 15 Mar 2024  
**Diagnosed** : 15 Mar 2024 - Wes Davis

**PERDUE FARMS - SALISBURY**  
 7036 ZION CHURCH ROAD  
 SALISBURY, MD  
 US 21802  
 Contact: RICHARD O'NEAL  
 richard.oneal@perdue.com  
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 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)