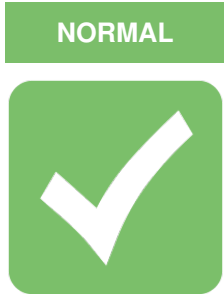
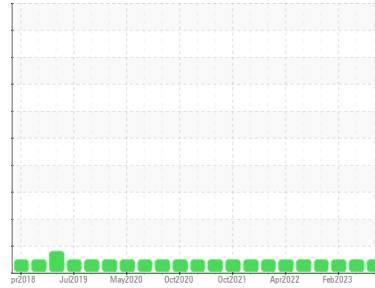


# OIL ANALYSIS REPORT

Area  
**FLEET**  
Machine Id  
**VOLVO VNR 26597**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (38 QTS)**

Sample Rating Trend



## 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>PCA0099537</b>	PCA0088753	PCA0087237	
Sample Date	Client Info	<b>17 Jan 2024</b>	25 Jun 2023	12 Feb 2023	
Machine Age	mls	Client Info	<b>651839</b>	0	569374
Oil Age	mls	Client Info	<b>15000</b>	30000	20000
Oil Changed	Client Info	<b>Changed</b>	Changed	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>70</b>	76	36
Chromium	ppm ASTM D5185m >20	<b>1</b>	2	<1
Nickel	ppm ASTM D5185m >2	<b>1</b>	2	1
Titanium	ppm ASTM D5185m	<b>3</b>	6	5
Silver	ppm ASTM D5185m >2	<b>&lt;1</b>	0	0
Aluminum	ppm ASTM D5185m >25	<b>4</b>	7	4
Lead	ppm ASTM D5185m >40	<b>4</b>	4	2
Copper	ppm ASTM D5185m >330	<b>6</b>	10	4
Tin	ppm ASTM D5185m >15	<b>1</b>	2	<1
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	<1	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	<b>4</b>	<1	2
Barium	ppm ASTM D5185m 0	<b>0</b>	2	2
Molybdenum	ppm ASTM D5185m 50	<b>56</b>	72	53
Manganese	ppm ASTM D5185m 0	<b>1</b>	1	<1
Magnesium	ppm ASTM D5185m 950	<b>882</b>	1057	828
Calcium	ppm ASTM D5185m 1050	<b>1065</b>	1434	1145
Phosphorus	ppm ASTM D5185m 995	<b>1037</b>	1200	933
Zinc	ppm ASTM D5185m 1180	<b>1262</b>	1522	1164
Sulfur	ppm ASTM D5185m 2600	<b>2465</b>	3488	2669

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>7</b>	9	6
Sodium	ppm ASTM D5185m	<b>15</b>	37	13
Potassium	ppm ASTM D5185m >20	<b>4</b>	4	2

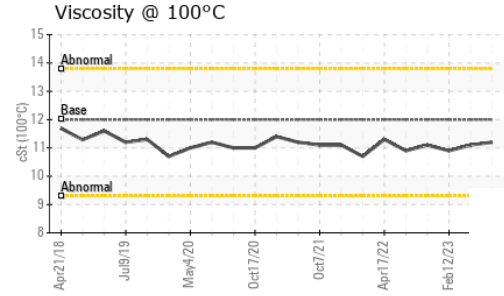
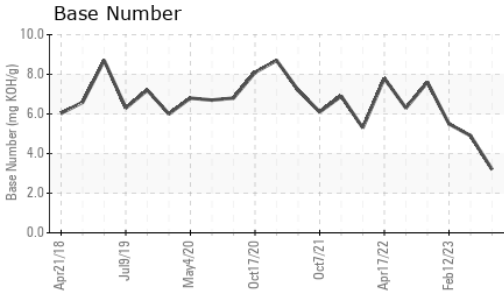
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.9</b>	0.8	0.6
Nitration	Abs/cm *ASTM D7624 >20	<b>13.6</b>	12.3	10.1
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>26.4</b>	25.7	22.8

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>25.9</b>	22.1	18.9
Base Number (BN)	mg KOH/g ASTM D2896	<b>3.2</b>	4.9	5.5

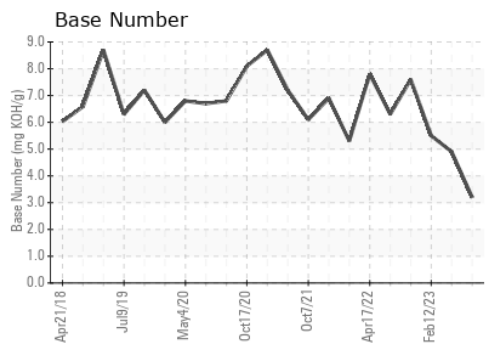
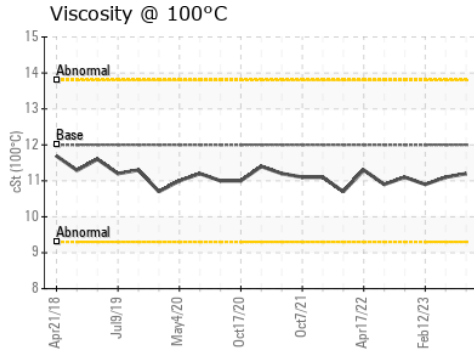
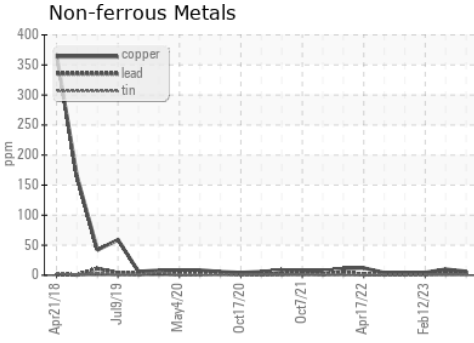
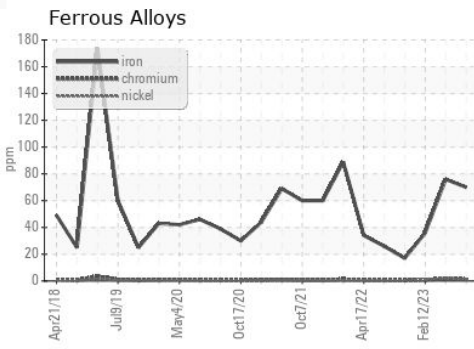
# OIL ANALYSIS REPORT



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.** : PCA0099537 **Received** : 31 Jan 2024  
**Lab Number** : 06075548 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10857639 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**PERDUE FARMS - SALISBURY**  
 7036 ZION CHURCH ROAD  
 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)