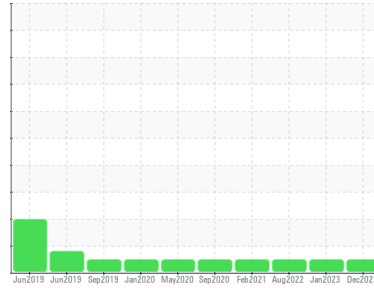


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**VOLVO VNR640 SLEEPER W/ELECTRIC APU 1926717**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

## 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>PCA0112325</b>	PCA0088220	PCA0077878
Sample Date	Client Info			<b>06 Dec 2023</b>	12 Jan 2023	30 Aug 2022
Machine Age	mls Client Info			<b>96665</b>	96665	96665
Oil Age	mls Client Info			<b>96665</b>	96665	96665
Oil Changed	Client Info			<b>N/A</b>	N/A	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>69</b>	33	24
Chromium	ppm ASTM D5185m	>20		<b>1</b>	<1	<1
Nickel	ppm ASTM D5185m	>2		<b>&lt;1</b>	<1	0
Titanium	ppm ASTM D5185m			<b>0</b>	0	0
Silver	ppm ASTM D5185m	>2		<b>0</b>	0	<1
Aluminum	ppm ASTM D5185m	>25		<b>5</b>	5	4
Lead	ppm ASTM D5185m	>40		<b>&lt;1</b>	2	1
Copper	ppm ASTM D5185m	>330		<b>8</b>	6	5
Tin	ppm ASTM D5185m	>15		<b>&lt;1</b>	1	1
Antimony	ppm ASTM D5185m			<b>---</b>	---	---
Vanadium	ppm ASTM D5185m			<b>0</b>	0	0
Cadmium	ppm ASTM D5185m			<b>0</b>	0	<1

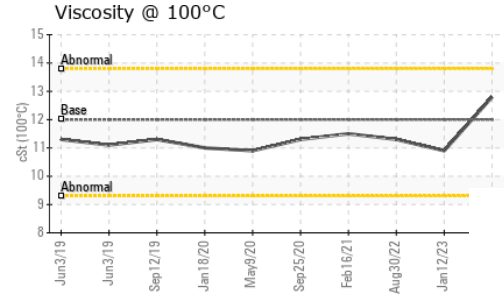
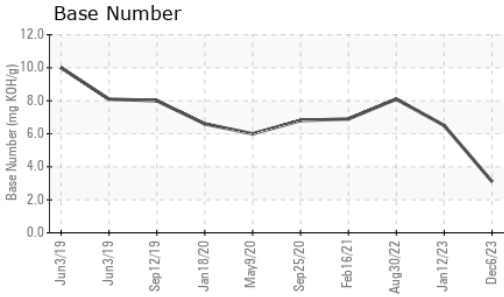
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2		<b>0</b>	2	2
Barium	ppm ASTM D5185m	0		<b>0</b>	4	0
Molybdenum	ppm ASTM D5185m	50		<b>62</b>	57	61
Manganese	ppm ASTM D5185m	0		<b>1</b>	<1	<1
Magnesium	ppm ASTM D5185m	950		<b>1018</b>	814	851
Calcium	ppm ASTM D5185m	1050		<b>1135</b>	986	1077
Phosphorus	ppm ASTM D5185m	995		<b>1290</b>	847	936
Zinc	ppm ASTM D5185m	1180		<b>1411</b>	1099	1206
Sulfur	ppm ASTM D5185m	2600		<b>2929</b>	2795	2826

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25		<b>7</b>	6	5
Sodium	ppm ASTM D5185m			<b>14</b>	12	8
Potassium	ppm ASTM D5185m	>20		<b>3</b>	1	3

INFRA-RED		method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3		<b>0.8</b>	0.7	0.7
Nitration	Abs/cm *ASTM D7624	>20		<b>13.0</b>	9.8	10.1
Sulfation	Abs/.1mm *ASTM D7415	>30		<b>27.4</b>	21.5	21.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25		<b>27.0</b>	17.6	17.8
Base Number (BN)	mg KOH/g ASTM D2896			<b>3.1</b>	6.5	8.1

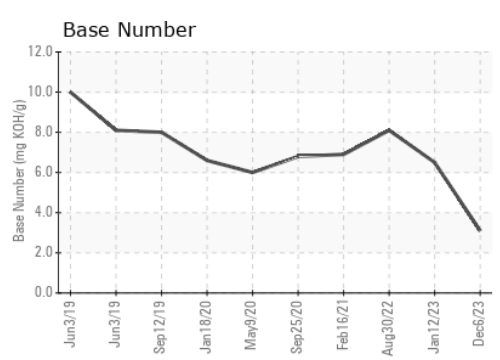
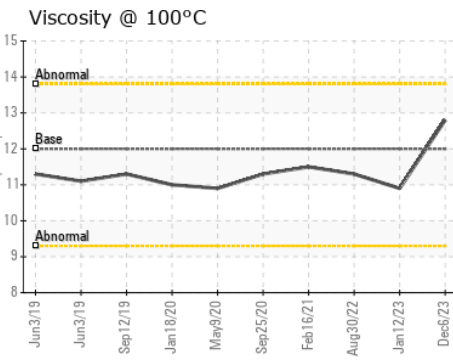
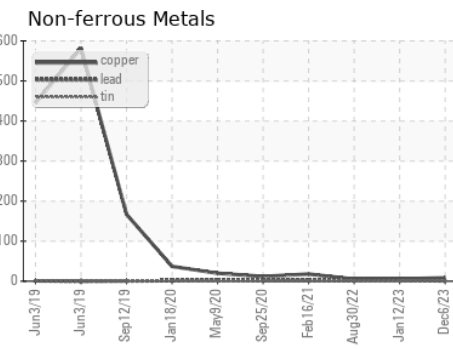
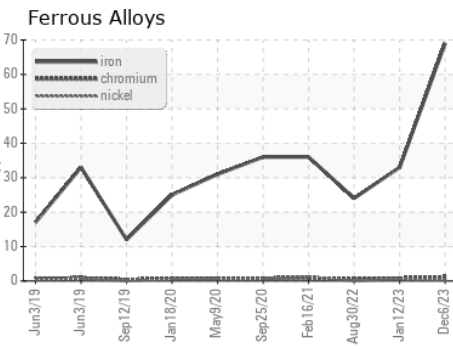
# OIL ANALYSIS REPORT



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	<b>12.8</b>	10.9	11.3

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0112325 **Recieved** : 12 Dec 2023  
**Lab Number** : **06032180** **Diagnosed** : 14 Dec 2023  
**Unique Number** : 10781971 **Diagnostician** : Sean Felton  
**Test Package** : FLEET

**PERDUE FARMS - DILLON**  
 2047 HWY 9 WEST  
 DILLON, SC  
 US 29536  
 Contact: KEVIN HOOKS  
 kevin.hooks@perdue.com  
 T: (843)841-8069  
 F: (843)841-8070

Certificate L2367  
 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)