

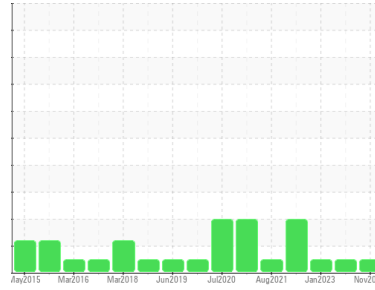
# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Area  
**FLEET**  
Machine Id  
**VOLVO 7636 (S/N 925046)**  
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>PCA0106362</b>	PCA0101150	PCA0087240
Sample Date	Client Info		<b>05 Nov 2023</b>	03 Sep 2023	06 Jan 2023
Machine Age	mls	Client Info	<b>742150</b>	24000	613618
Oil Age	mls	Client Info	<b>20000</b>	24000	40000
Oil Changed	Client Info		<b>N/A</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
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>12</b>	29	38
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	2
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	2	1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	2	6
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>4</b>	11	16
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	2	1
Copper	ppm	ASTM D5185m >330	<b>&lt;1</b>	3	3
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	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>0</b>	1	5
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>61</b>	59	54
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m 950	<b>964</b>	990	790
Calcium	ppm	ASTM D5185m 1050	<b>1151</b>	1179	1117
Phosphorus	ppm	ASTM D5185m 995	<b>1131</b>	1070	949
Zinc	ppm	ASTM D5185m 1180	<b>1318</b>	1378	1174
Sulfur	ppm	ASTM D5185m 2600	<b>3102</b>	3862	3037

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>4</b>	7	7
Sodium	ppm	ASTM D5185m	<b>4</b>	9	11
Potassium	ppm	ASTM D5185m >20	<b>3</b>	8	19

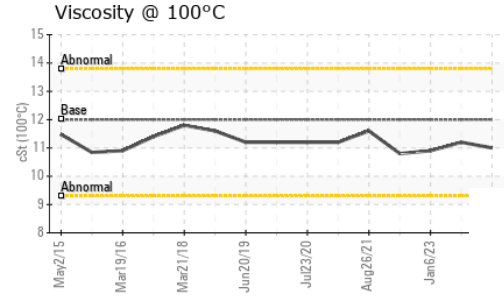
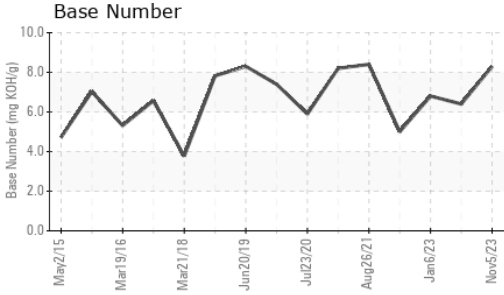
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.3</b>	0.7	0.5
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.2</b>	9.8	11.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.1</b>	20.9	20.7

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>15.5</b>	16.5	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.3</b>	6.4	6.8

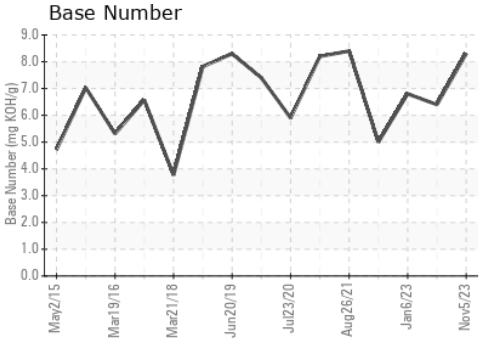
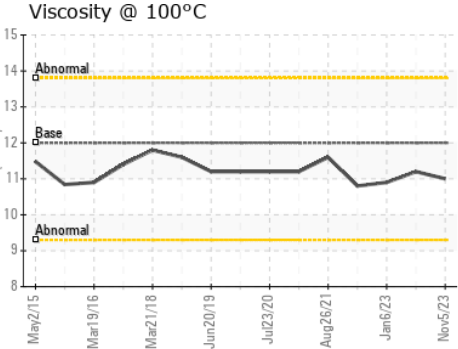
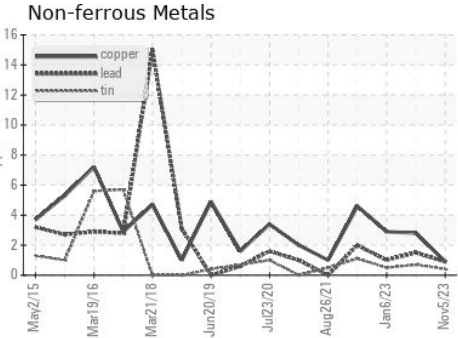
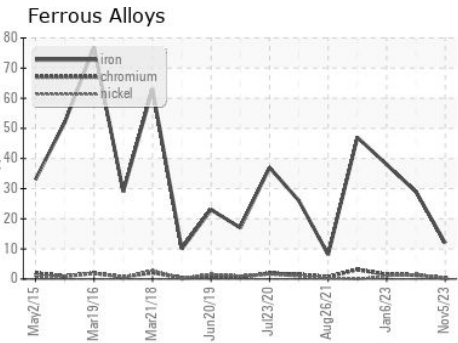
# OIL ANALYSIS REPORT



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>11.0</b>	11.2	10.9

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0106362 **Received** : 10 Nov 2023  
**Lab Number** : **06003982** **Diagnosed** : 16 Nov 2023  
**Unique Number** : 10737744 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

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)

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