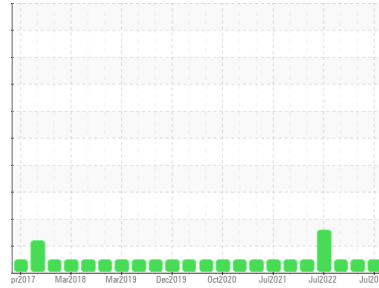


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**VOLVO 26507**

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>PCA0088744</b>	PCA0092453	PCA0087228
Sample Date	Client Info		<b>09 Jul 2023</b>	08 May 2023	19 Feb 2023
Machine Age	mls	Client Info	<b>0</b>	623540	20000
Oil Age	mls	Client Info	<b>40000</b>	20000	20000
Oil Changed	Client Info		<b>N/A</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
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>28</b>	20	56
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m >2	<b>1</b>	<1	2
Titanium	ppm	ASTM D5185m	<b>2</b>	2	6
Silver	ppm	ASTM D5185m >2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m >25	<b>6</b>	2	7
Lead	ppm	ASTM D5185m >40	<b>2</b>	<1	1
Copper	ppm	ASTM D5185m >330	<b>3</b>	2	5
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>&lt;1</b>	2	1
Barium	ppm	ASTM D5185m 0	<b>2</b>	0	2
Molybdenum	ppm	ASTM D5185m 50	<b>59</b>	56	53
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 950	<b>867</b>	952	817
Calcium	ppm	ASTM D5185m 1050	<b>1150</b>	1071	1152
Phosphorus	ppm	ASTM D5185m 995	<b>1001</b>	1011	975
Zinc	ppm	ASTM D5185m 1180	<b>1225</b>	1243	1168
Sulfur	ppm	ASTM D5185m 2600	<b>2827</b>	3449	2603

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>6</b>	6	8
Sodium	ppm	ASTM D5185m	<b>16</b>	11	17
Potassium	ppm	ASTM D5185m >20	<b>2</b>	2	2

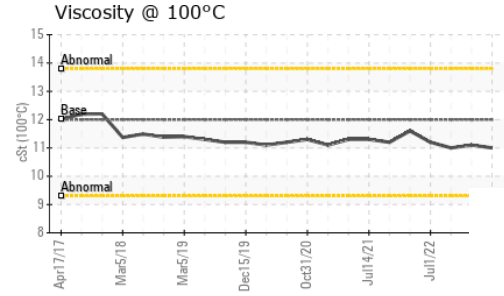
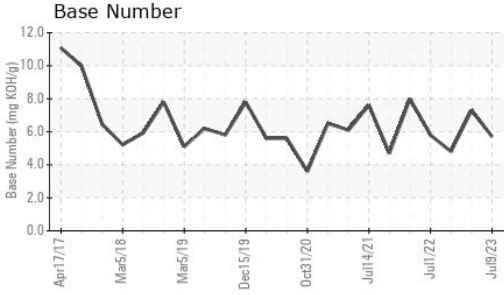
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.6</b>	0.4	0.6
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.3</b>	9.4	11.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>23.4</b>	20.7	24.1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>19.8</b>	17.1	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	<b>5.7</b>	7.3	4.8

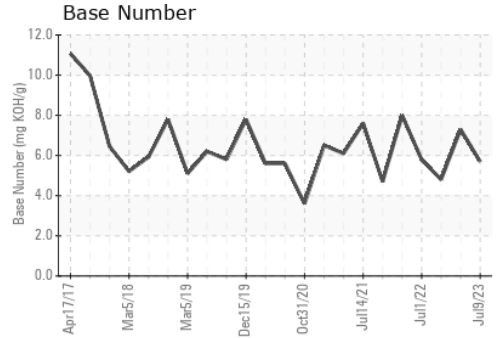
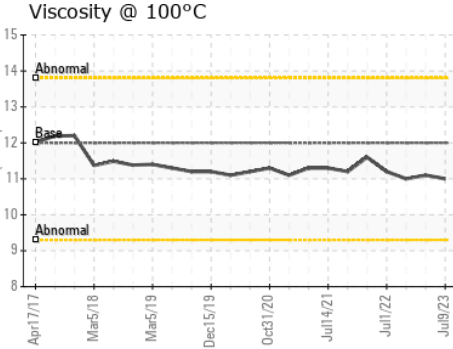
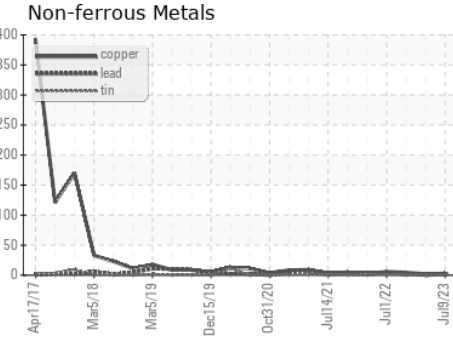
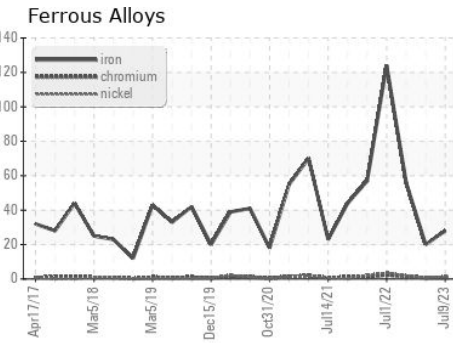
# OIL ANALYSIS REPORT



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	11.0	11.1

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0088744 **Received** : 14 Jul 2023  
**Lab Number** : 05898309 **Diagnosed** : 17 Jul 2023  
**Unique Number** : 10559665 **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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