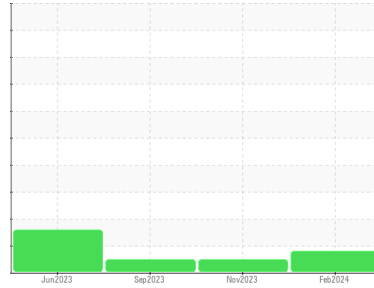


# OIL ANALYSIS REPORT

Area  
**FLEET**  
 Machine Id  
**VOLVO 2126963 (S/N 4V4NC9EH1NN603196)**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (42 QTS)**

Sample Rating Trend



**WEAR**



## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

Valve wear is indicated.

### 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>PCA0118724</b>	PCA0108210	PCA0102838
Sample Date	Client Info			<b>26 Feb 2024</b>	16 Nov 2023	05 Sep 2023
Machine Age	mls	Client Info		<b>87611</b>	68021	47778
Oil Age	mls	Client Info		<b>39833</b>	20243	22409
Oil Changed	Client Info			<b>Changed</b>	Not Changd	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>26</b>	14	22
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>▲ 4</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	1
Aluminum	ppm	ASTM D5185m	>25	<b>5</b>	4	10
Lead	ppm	ASTM D5185m	>40	<b>2</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>75</b>	118	355
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	1	2
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>	0	7
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>62</b>	61	62
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m	950	<b>1035</b>	930	973
Calcium	ppm	ASTM D5185m	1050	<b>1135</b>	1071	1119
Phosphorus	ppm	ASTM D5185m	995	<b>951</b>	949	971
Zinc	ppm	ASTM D5185m	1180	<b>1314</b>	1210	1217
Sulfur	ppm	ASTM D5185m	2600	<b>2670</b>	3108	3154

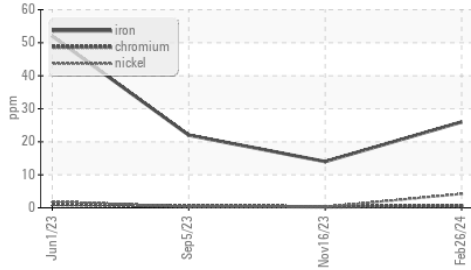
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>6</b>	7	11
Sodium	ppm	ASTM D5185m		<b>2</b>	0	4
Potassium	ppm	ASTM D5185m	>20	<b>12</b>	13	27

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.6</b>	7.9	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.0</b>	19.9	20.6

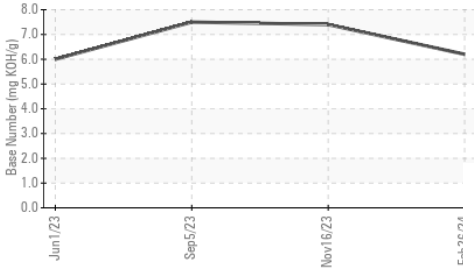
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.2</b>	15.1	16.2
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.2</b>	7.4	7.5

# OIL ANALYSIS REPORT

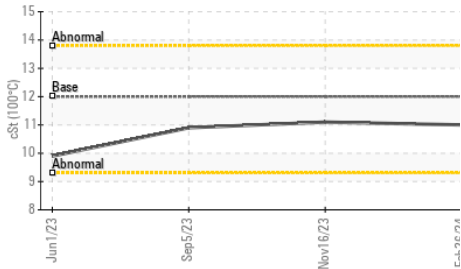
### ▲ Ferrous Alloys



### Base Number



### Viscosity @ 100°C

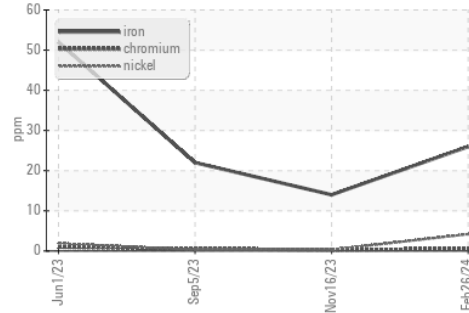


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

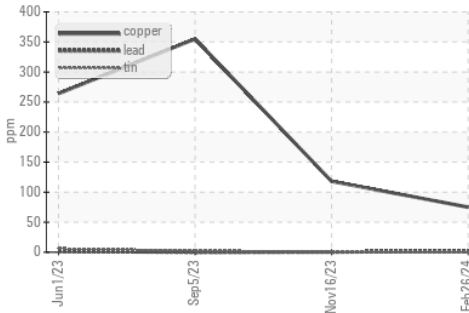
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.0	11.1

### GRAPHS

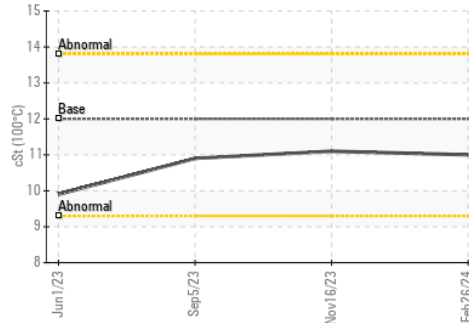
### ▲ Ferrous Alloys



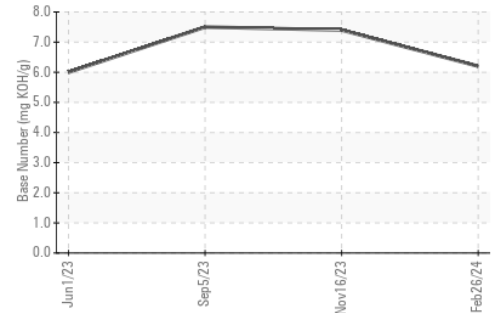
### Non-ferrous Metals



### Viscosity @ 100°C



### Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0118724      **Received** : 04 Mar 2024  
**Lab Number** : **06107034**      **Tested** : 04 Mar 2024  
**Unique Number** : 10910531      **Diagnosed** : 06 Mar 2024 - Jonathan Hester  
**Test Package** : FLEET

**PERDUE FARMS - ACCOMAC**  
 22520 LANKFORD HWY  
 ACCOMAC, VA  
 US 23301  
 Contact: PEGGY KIMES  
 peggy.kimes@perdue.com  
 T: (757)787-5304  
 F: (757)787-5208

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)