



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**FLEET**

Machine Id

**VOLVO 2126959 (S/N 4V4NC9EHXNN603164)**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SHP 10W30 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0124528</b>	PCA0119896	PCA0113705
Sample Date		Client Info		<b>16 May 2024</b>	14 Mar 2024	18 Jan 2024
Machine Age	mls	Client Info		<b>139395</b>	120902	103398
Oil Age	mls	Client Info		<b>35997</b>	17504	35840
Filter Age	mls	Client Info		<b>18493</b>	17504	21585
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>17</b>	13	20
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	3	6
Lead	ppm	ASTM D5185m	>40	<b>1</b>	2	3
Copper	ppm	ASTM D5185m	>330	<b>19</b>	16	59
Tin	ppm	ASTM D5185m	>15	<b>2</b>	2	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

There is no indication of any contamination in the oil.

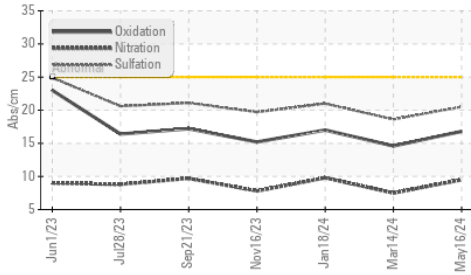
Silicon	ppm	ASTM D5185m	>25	<b>5</b>	5	7
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	7	14
Fuel		WC Method	>6.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.5</b>	7.5	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.5</b>	18.6	21.0
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

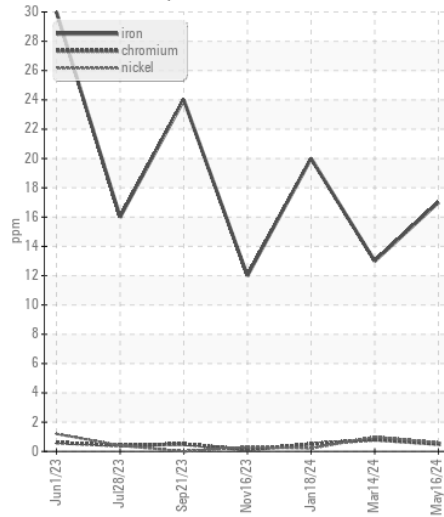
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Boron	ppm	ASTM D5185m	2	<b>0</b>	2	8
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	0
Molybdenum	ppm	ASTM D5185m	50	<b>59</b>	61	63
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	950	<b>963</b>	917	1035
Calcium	ppm	ASTM D5185m	1050	<b>1095</b>	1073	1173
Phosphorus	ppm	ASTM D5185m	995	<b>1118</b>	967	886
Zinc	ppm	ASTM D5185m	1180	<b>1303</b>	1186	1217
Sulfur	ppm	ASTM D5185m	2600	<b>3393</b>	2975	2741
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.8</b>	14.6	17.0
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.1</b>	8.4	6.2
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.1</b>	11.2	11.1

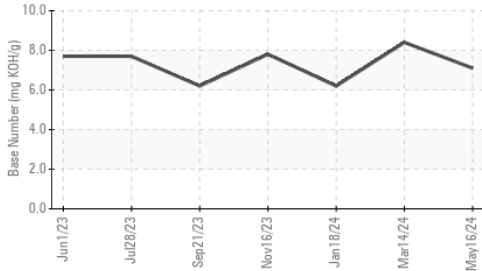
**FT-IR (Direct Trend)**



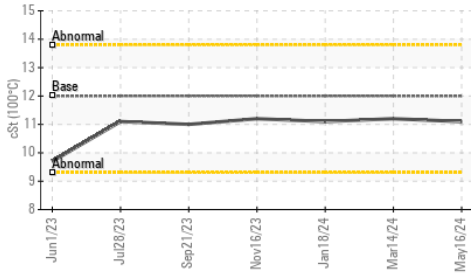
**Ferrous Alloys**



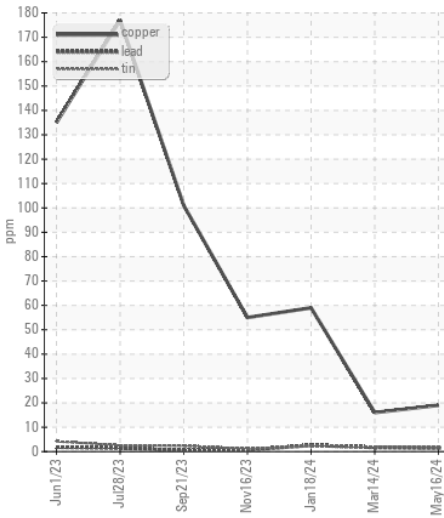
**Base Number**



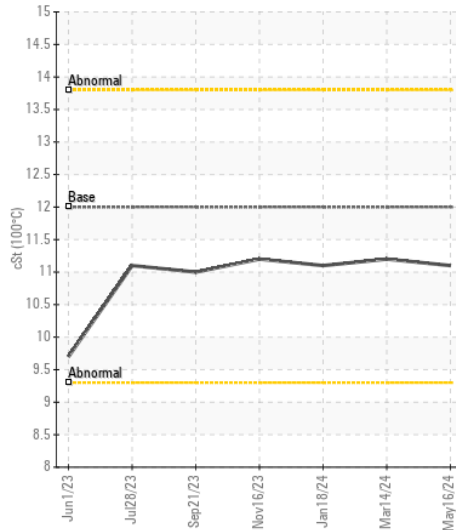
**Viscosity @ 100°C**



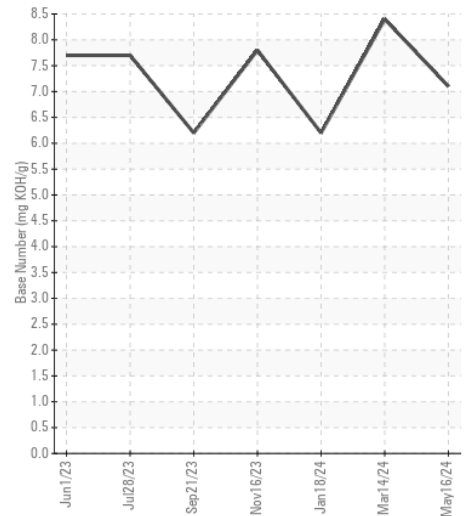
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0124528  
**Lab Number** : 06188778  
**Unique Number** : 11045530  
**Test Package** : FLEET  
**Received** : 23 May 2024  
**Tested** : 31 May 2024  
**Diagnosed** : 31 May 2024 - Wes Davis

**PERDUE FARMS - ACCOMAC**  
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 ACCOMAC, VA  
 US 23301  
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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)