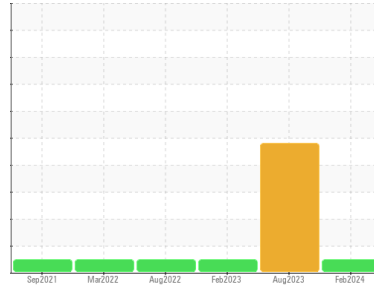


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**DT799**  
 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>PCA0113161</b>	PCA0096956	PCA0091196	
Sample Date	Client Info	<b>13 Feb 2024</b>	07 Aug 2023	08 Feb 2023	
Machine Age	mls	Client Info	<b>153780</b>	129394	102857
Oil Age	mls	Client Info	<b>24386</b>	26537	26145
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed	
Sample Status		<b>NORMAL</b>	ABNORMAL	NORMAL	

## CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<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 >110	<b>12</b>	▲ 143	21
Chromium	ppm ASTM D5185m >4	<b>&lt;1</b>	2	<1
Nickel	ppm ASTM D5185m >2	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>0</b>	<1	0
Silver	ppm ASTM D5185m >2	<b>0</b>	0	<1
Aluminum	ppm ASTM D5185m >25	<b>9</b>	5	12
Lead	ppm ASTM D5185m >45	<b>0</b>	0	<1
Copper	ppm ASTM D5185m >85	<b>&lt;1</b>	<1	2
Tin	ppm ASTM D5185m >4	<b>0</b>	0	<1
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>5</b>	▲ 246	5
Barium	ppm ASTM D5185m 0	<b>0</b>	2	<1
Molybdenum	ppm ASTM D5185m 50	<b>58</b>	21	65
Manganese	ppm ASTM D5185m 0	<b>0</b>	4	<1
Magnesium	ppm ASTM D5185m 950	<b>899</b>	▲ 226	1009
Calcium	ppm ASTM D5185m 1050	<b>1040</b>	▲ 286	1212
Phosphorus	ppm ASTM D5185m 995	<b>981</b>	▲ 1515	1064
Zinc	ppm ASTM D5185m 1180	<b>1178</b>	▲ 320	1402
Sulfur	ppm ASTM D5185m 2600	<b>2743</b>	▲ 25565	3452

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >30	<b>5</b>	▲ 30	6
Sodium	ppm ASTM D5185m	<b>1</b>	2	2
Potassium	ppm ASTM D5185m >20	<b>6</b>	2	17

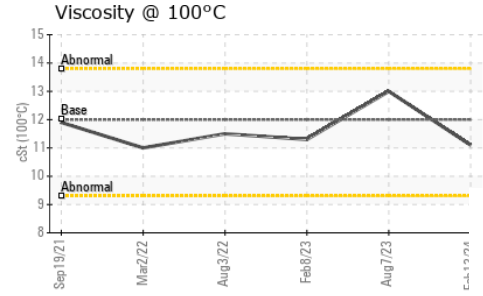
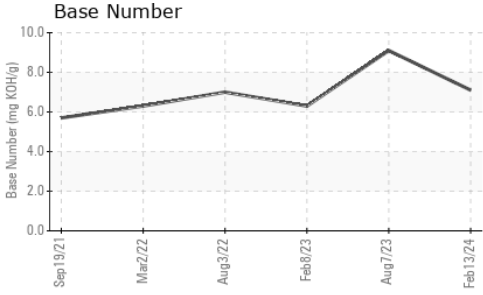
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.4</b>	0.1	0.6
Nitration	Abs/cm *ASTM D7624 >20	<b>8.5</b>	4.4	9.6
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>21.1</b>	72.8	22.0

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>17.7</b>	71.5	18.1
Base Number (BN)	mg KOH/g ASTM D2896	<b>7.1</b>	9.1	6.3

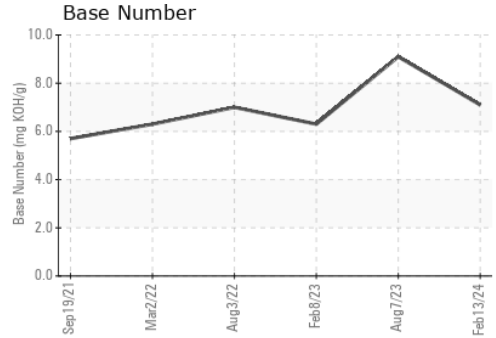
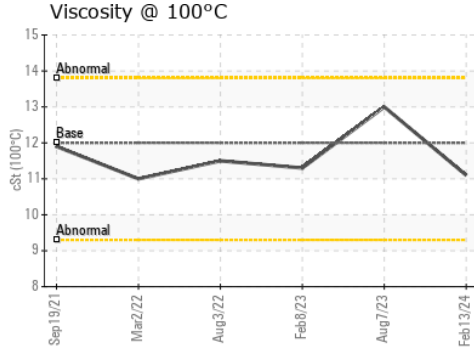
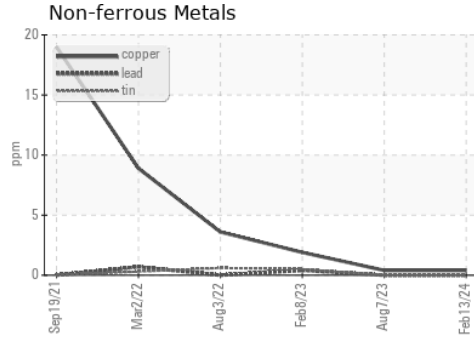
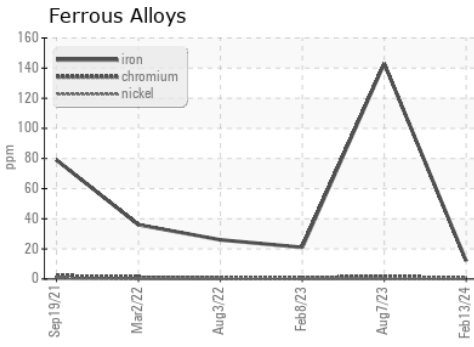
# OIL ANALYSIS REPORT



PARAMETER	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	LIGHT
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>11.1</b>	13.0	11.3

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0113161  
**Lab Number** : **06092811**  
**Unique Number** : 10885664  
**Test Package** : FLEET

**Received** : 19 Feb 2024  
**Tested** : 20 Feb 2024  
**Diagnosed** : 20 Feb 2024 - Wes Davis

**NW WHITE & CO - ANDERSON DIVISION**  
 2605 RIVER RD  
 PIEDMONT, SC  
 US 29673  
 Contact: James Threatt  
 jthreatt@nwwhite.com  
 T: (864)918-4646  
 F:

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)