



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**251**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (45 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0879653</b>	AP100272	AP99041
Sample Date		Client Info		<b>26 Nov 2023</b>	15 Jan 2016	28 Jul 2015
Machine Age	kms	Client Info		<b>1050115</b>	506840	465929
Oil Age	kms	Client Info		<b>34775</b>	0	0
Filter Age	kms	Client Info		<b>34775</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	<b>26</b>	23	21
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Nickel	ppm	ASTM D5185(m)	>2	<b>1</b>	<1	1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	<b>11</b>	10	8
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m)	>30	<b>3</b>	3	4
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1

## CONTAMINATION

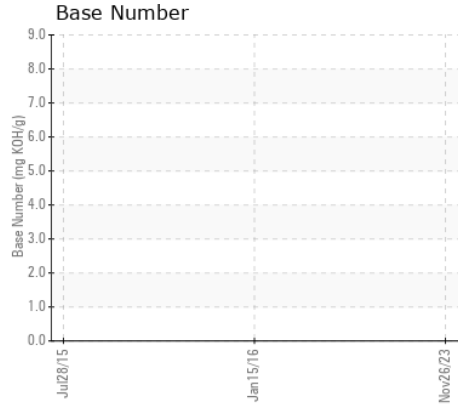
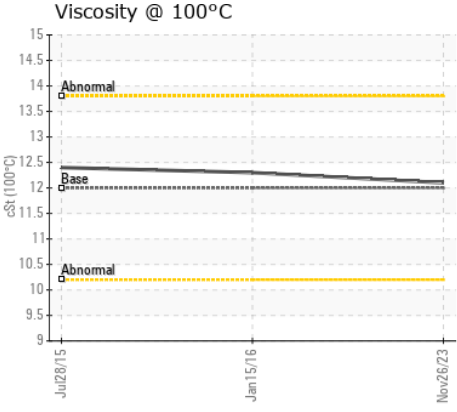
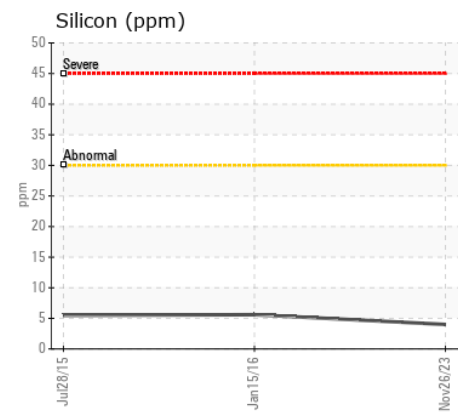
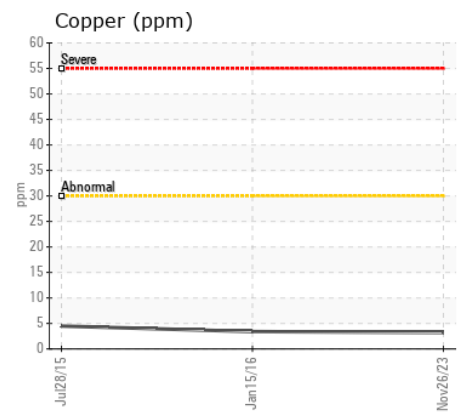
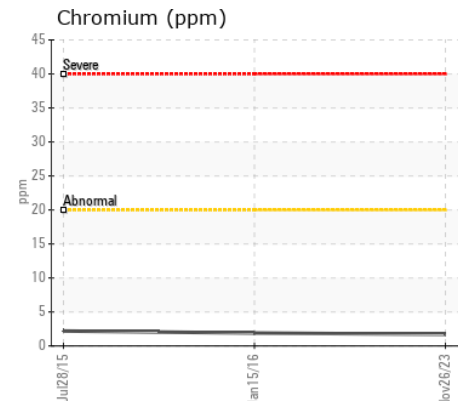
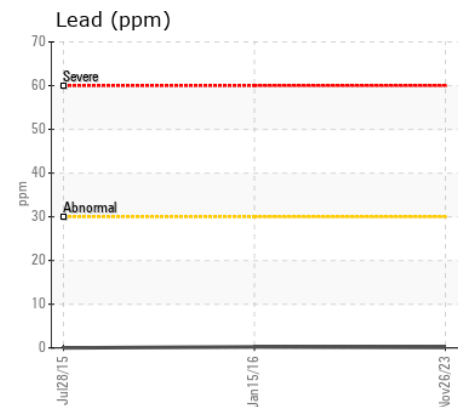
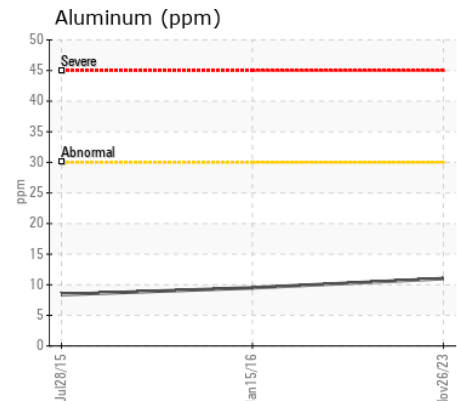
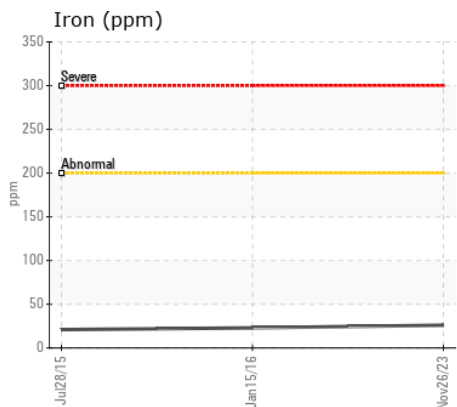
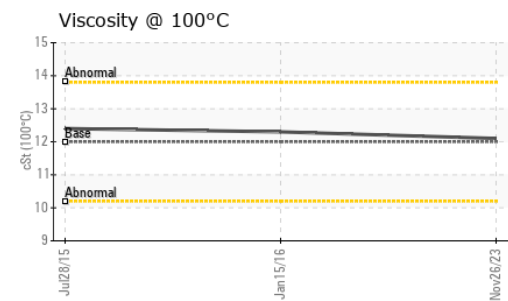
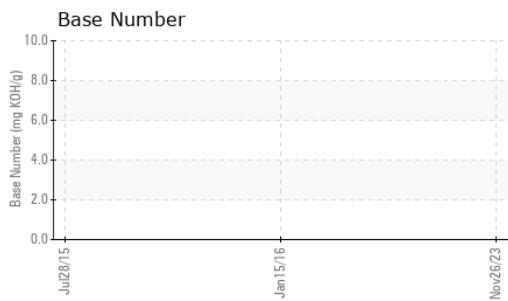
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>4</b>	6	6
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	2	4
Fuel		WC Method	>3.0	<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>	0.6	0.5
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.7</b>	10.1	9.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.4</b>	24.0	21.7
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 D5185(m)		<b>2</b>	6	6
Boron	ppm	ASTM D5185(m)	2	<b>12</b>	11	13
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>50</b>	39	41
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>746</b>	917	958
Calcium	ppm	ASTM D5185(m)	1050	<b>1378</b>	1259	1075
Phosphorus	ppm	ASTM D5185(m)	995	<b>1017</b>	1037	1037
Zinc	ppm	ASTM D5185(m)	1180	<b>1206</b>	1278	1242
Sulfur	ppm	ASTM D5185(m)	2600	<b>2750</b>	2746	2705
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.3</b>	17.8	16.5
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>8.12</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>12.1</b>	12.3	12.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0879653 **Received** : 22 Jan 2024  
**Lab Number** : 02610112 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 5711198 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

**Moncton - Transport Laberge**  
 180 Edinburg Drive, Suite 1A  
 Moncton, NB  
 CA E1E 2K7  
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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