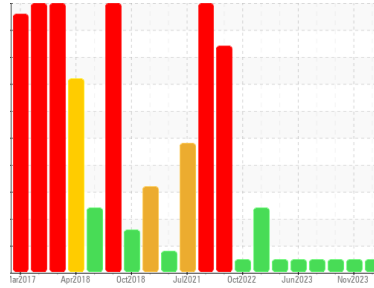




# OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id  
**4587**

Component  
**Diesel Engine**

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

## 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 condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0102605</b>	GFL0097634	GFL0090590
Sample Date	Client Info		<b>13 Feb 2024</b>	16 Nov 2023	17 Sep 2023
Machine Age	hrs	Client Info	<b>0</b>	2717	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	Changed	N/A
Sample Status			<b>NORMAL</b>	NORMAL	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 D5185(m)	>110	<b>49</b>	53	56
Chromium	ppm	ASTM D5185(m)	>4	<b>2</b>	2	3
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>4</b>	3	3
Lead	ppm	ASTM D5185(m)	>45	<b>5</b>	11	17
Copper	ppm	ASTM D5185(m)	>85	<b>3</b>	4	4
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	1	1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	2	<b>2</b>	2	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>61</b>	62	59
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>994</b>	1001	966
Calcium	ppm	ASTM D5185(m)	1050	<b>1113</b>	1103	1053
Phosphorus	ppm	ASTM D5185(m)	995	<b>1027</b>	1015	1033
Zinc	ppm	ASTM D5185(m)	1180	<b>1225</b>	1246	1201
Sulfur	ppm	ASTM D5185(m)	2600	<b>2554</b>	2401	2325
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>30	<b>5</b>	7	8
Sodium	ppm	ASTM D5185(m)		<b>7</b>	8	9
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	1

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>1</b>	1.1	1
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.8</b>	12.1	12.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.8</b>	25.0	25.6

