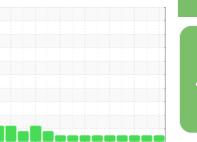


## **OIL ANALYSIS REPORT**

### Sample Rating Trend

SAMPLE INFORMATION method limit/base





NORMAL

## 828058-101262 Component

## **Diesel Engine**

Machine Id

Fluid PETRO CANADA DURON SHP 15W40 (--- 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.

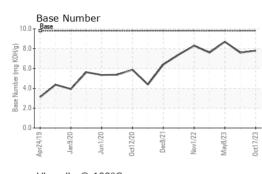
## Fluid Condition

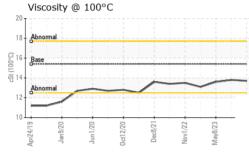
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		memod	11111/0430	current	HIStory	Thistoryz
Sample Number		Client Info		GFL0095321	GFL0081473	GFL0081480
Sample Date		Client Info		17 Oct 2023	07 Aug 2023	08 May 2023
Machine Age	hrs	Client Info		12767	12326	11731
Oil Age	hrs	Client Info		650	650	650
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	44	36	15
Chromium	ppm	ASTM D5185m	>20	3	2	1
Nickel	ppm	ASTM D5185m	>4	1	<1	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	6	6	3
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	2	2	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	<1	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	63	61
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	944	1105	961
Calcium	ppm	ASTM D5185m	1070	1073	1227	1013
Phosphorus	ppm	ASTM D5185m	1150	1009	1096	1039
Zinc	ppm	ASTM D5185m	1270	1233	1398	1274
Sulfur	ppm	ASTM D5185m	2060	3112	3775	3715
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	16	10	6
Sodium	ppm	ASTM D5185m		9	11	6
Potassium	ppm	ASTM D5185m	>20	5	4	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.4	9.8	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	20.1	19.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	17.4	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	7.6	8.7



# **OIL ANALYSIS REPORT**





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VISUAL		method	limit/base	current	history1	history2
VISUAL		method		current	· · · · · ·	
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.8	13.6
GRAPHS						
Ferrous Alloys						
15 T			1			
0 - Iron chromium		Λ	1			
15 nickel		( )				
T						

