

# **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id 410019

Fluid

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

SAMPLE INFORMATION

hrs

hrs

Sample Number

Sample Date

Machine Age

Oil Changed

Oil Age

)	Feb2022 May2	022 Aug2022 Oct/022 Ja	ndaza Mwidaza Mwidaza Judaz	1 Sq/202	
Ν	method				history2
	Client Info Client Info		GFL0092514 13 Sep 2023	GFL0077920 18 Jul 2023	GFL0077942 31 May 2023
	Client Info		7324	6740	6194
	Client Info		602	605	621
	Client Info		Changed	Changed	Changed

Sample Status			NORMAL	NORMAL	NORMAL
CONTAMINATION	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	9	8	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	0	<1	1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	0	<1	1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	2	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	62	65	60
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	1013	1067	978
Calcium	ppm	ASTM D5185m	1070	1097	1151	1146
Phosphorus	ppm	ASTM D5185m	1150	1011	1120	1023
Zinc	ppm	ASTM D5185m	1270	1299	1386	1284
Sulfur	ppm	ASTM D5185m	2060	3534	3788	3536
CONTAMINAN	ITS	method	limit/base	current	historv1	historv2

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Silicon	ppm	ASTM D5185m	>25	3	3	3
Sodium	ppm	ASTM D5185m		4	4	4
Potassium	ppm	ASTM D5185m	>20	<1	<1	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.0	9.4	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	20.1	21.6
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	17.2	18.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	8.2	7.3

## 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.



Abnorma

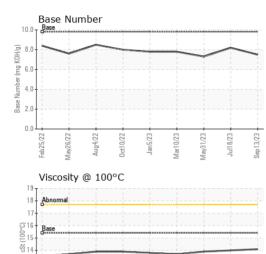
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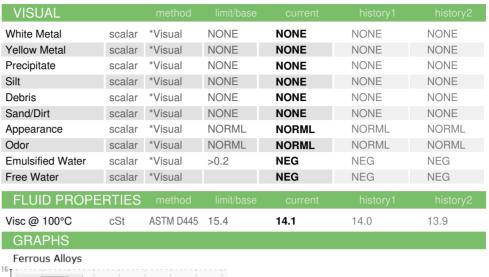
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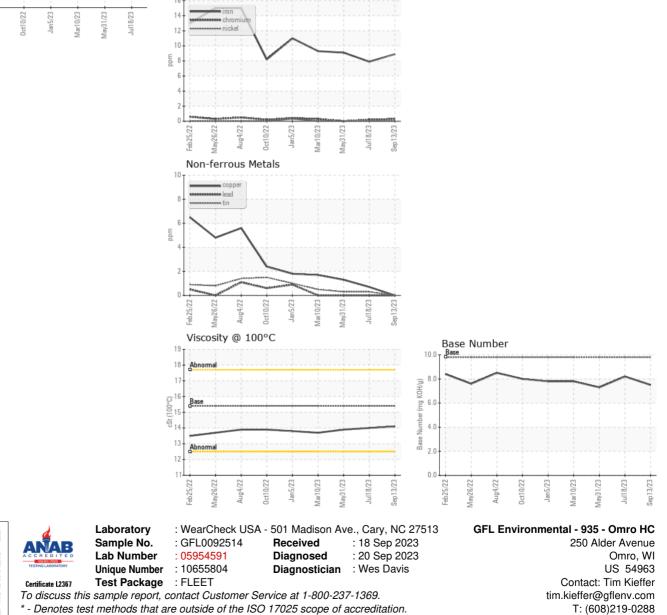
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# **OIL ANALYSIS REPORT**







Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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