

# **OIL ANALYSIS REPORT**

SAMPLE INFORMATIO

hrs

hrs

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

CONTAMINATION

Oil Age

Fuel

## Sample Rating Trend



## Machine Id 411022

#### Component **Diesel Engine**

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.

					ORMAL
	Nov2021 Nov2	2022 Jan2023 Mar2023	AprZ023 MayZ023 Jul2023	Aug2023	
N	method	limit/base	current	history1	history2
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	Client Info	mmbbase	GFL0090946	GFL0082699	GFL0082716
	Client Info		GFL0090946	GFL0082699	GFL0082716
	Client Info Client Info		GFL0090946 08 Sep 2023	GFL0082699 17 Aug 2023	GFL0082716 24 Jul 2023
	Client Info Client Info Client Info		GFL0090946 08 Sep 2023 6293	GFL0082699 17 Aug 2023 6153	GFL0082716 24 Jul 2023 6004
	Client Info Client Info Client Info Client Info		GFL0090946 08 Sep 2023 6293 0	GFL0082699 17 Aug 2023 6153 149	GFL0082716 24 Jul 2023 6004 129
	Client Info Client Info Client Info Client Info	limit/base	GFL0090946 08 Sep 2023 6293 0 Changed	GFL0082699 17 Aug 2023 6153 149 Changed	GFL0082716 24 Jul 2023 6004 129 Changed
	Client Info Client Info Client Info Client Info Client Info		GFL0090946 08 Sep 2023 6293 0 Changed NORMAL	GFL0082699 17 Aug 2023 6153 149 Changed NORMAL	GFL0082716 24 Jul 2023 6004 129 Changed NORMAL

Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	5	6	8
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	4	3
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	2	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	67	83
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1046	998	1002
Calcium	ppm	ASTM D5185m	1070	1165	1061	1116
Phosphorus	ppm	ASTM D5185m	1150	1064	1045	1068
Zinc	ppm	ASTM D5185m	1270	1348	1246	1335
Sulfur	ppm	ASTM D5185m	2060	3966	3653	3848
CONTAMINAN	TS	method	limit/base	current	history1	history2

					,	,	
Silicon	ppm	ASTM D5185m	>25	3	3	3	
Sodium	ppm	ASTM D5185m		4	4	5	
Potassium	ppm	ASTM D5185m	>20	6	7	14	

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.9
Nitration	Abs/cm	*ASTM D7624	>20	6.5	5.9	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	17.7	19.4
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	13.1	14.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	8.5	8.4



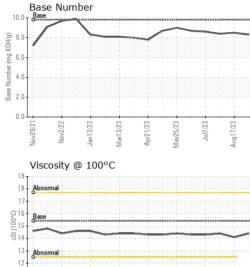
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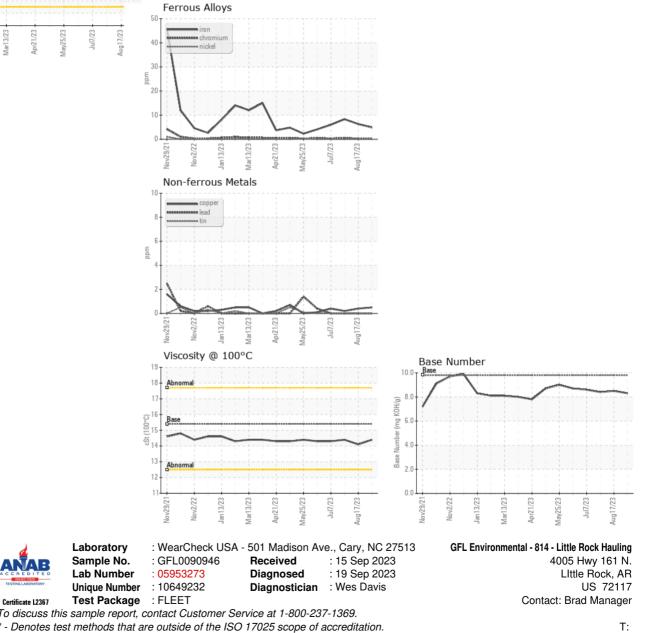
Jan 13/23

Mar13/23

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VISUAL		method	limit/base	current	history1	history2
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	14.4	14.1	14.4
GRAPHS						





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)