

# **OIL ANALYSIS REPORT**

## Sample Rating Trend

# NORMAL

## Machine Io 948007-205265

#### Component **Diesel Engine**

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.

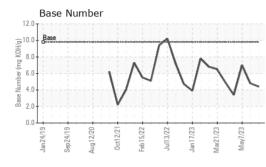
ISIS REPO	ORI				N	IORMAL
GAL)		n2019 Sep201	19 Aug2020 Oct2021 Fel	62022 Jul2022 Jan2023 Mar2023	May2023	
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084643	GFL0084713	GFL0078200
Sample Date		Client Info		15 Oct 2023	13 Jun 2023	07 May 2023
Machine Age	hrs	Client Info		0	0	16132
Oil Age	hrs	Client Info		0	0	0
-	1115	Client Info		0 Changed	Changed	Not Changd
Oil Changed Sample Status				NORMAL	NORMAL	NORMAL
				NORMAL	NORIVIAL	
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	8	8	5
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	4	0
Lead	ppm	ASTM D5185m	>40	<1	1	0
Copper	ppm	ASTM D5185m	>330	1	0	1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	9	23
Barium	ppm	ASTM D5185m	0	3	0	0
Molybdenum	ppm	ASTM D5185m	60	51	50	48
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	514	580	574
Calcium	ppm	ASTM D5185m	1070	1517	1690	1508
Phosphorus	ppm	ASTM D5185m	1150	619	722	743
Zinc	ppm	ASTM D5185m	1270	830	1004	912
Sulfur	ppm	ASTM D5185m	2060	2049	2992	2801
CONTAMINA	NTS	method	limit/base	current	history1	history2
			>25			
Silicon	ppm	ASTM D5185m	>20	5	8	8

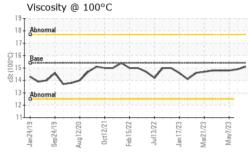
Silicon	ppm	ASTM D5185m	>25	5	8	8
Sodium	ppm	ASTM D5185m		9	22	17
Potassium	ppm	ASTM D5185m	>20	<1	4	2
INFRA-RED		method	limit/base	current	history1	history2

						matoryz
Soot %	%	*ASTM D7844	>3	0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	10.6	10.1	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	21.3	17.6
FLUID DEGRAD	<b>ATION</b>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	19.7	15.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.4	4.8	7.0

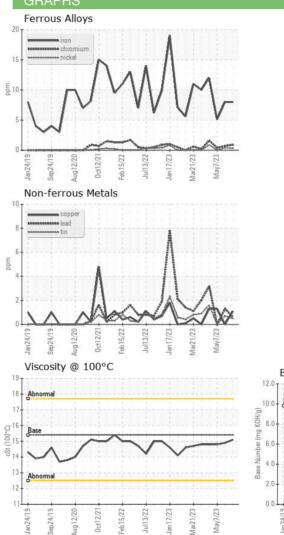


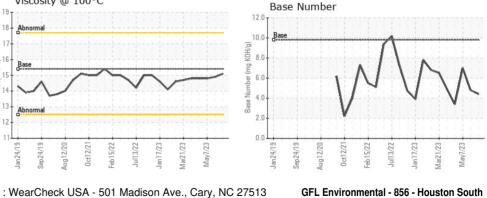
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	15.1	14.9	14.8
GRAPHS						





8515 Highway 6 South Houston, TX US 77083 Contact: Gino Griego

: 10697517 Test Package : FLEET 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.

: GFL0084643

: 05980222

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

Received

Diagnosed

: 16 Oct 2023

: 18 Oct 2023

Diagnostician : Angela Borella

Certificate L2367

Laboratory

Sample No.

Lab Number

Unique Number