

OIL ANALYSIS REPORT

Sample Rating Trend



(BD49688) Fluid

914021 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (9 GAL)

SAMPLE INFOR			3 Novžoza		až024	biete - O
			innivoase	current	history1	history2
Sample Number		Client Info		GFL0115029	GFL0106658	GFL0097664
Sample Date		Client Info		27 Mar 2024	17 Jan 2024	04 Nov 2023
Machine Age	hrs	Client Info		2334	1768	1152
Oil Age	hrs	Client Info		566 Observed	616 Channed	550 Observed
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	0.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	10	12	41
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>5	0	2	3
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	3
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	3	15	71
Tin	ppm	ASTM D5185m	>15	<1	<1	3
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	3	47
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	55	93
Manganese	ppm	ASTM D5185m	0	<1	<1	4
Magnesium	ppm	ASTM D5185m	1010	920	922	737
Calcium	ppm	ASTM D5185m	1070	1023	1056	1306
Phosphorus	ppm	ASTM D5185m	1150	1001	980	728
Zinc	ppm	ASTM D5185m	1270	1225	1195	947
Sulfur	ppm	ASTM D5185m	2060	3164	2854	2042
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	4 35
Sodium	ppm	ASTM D5185m		2	2	6
Potassium	ppm	ASTM D5185m	>20	0	2	4
INFRA-RED		method	limit/base	current	history1	history2
0 10/	%	*ASTM D7844	>4	0.4	0.4	0.7
Soot %		*ACTM D7004	>20	8.2	8.3	11.2
Soot % Nitration	Abs/cm	*ASTM D7624	220	•		
	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415		19.7	19.7	23.9
Nitration	Abs/.1mm	*ASTM D7415		19.7		
Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30 limit/base	19.7	19.7	23.9 history2 22.9

DIAGNOSIS Recommendation

Resample at the next service interval to mor

Wear

All component wear rates are normal.

Contamination

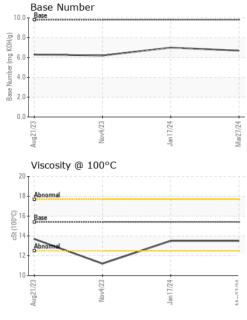
There is no indication of any contamination in oil.

Fluid Condition

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



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	method	limit/base	current	history1	history2
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NONE	NONE	NONE	NONE
scalar	*Visual	NORML	NORML	NORML	NORML
scalar	*Visual	NORML	NORML	NORML	NORML
scalar	*Visual	>0.2	NEG	NEG	NEG
scalar	*Visual		NEG	NEG	NEG
RTIES	method	limit/base	current	history1	history2
cSt	ASTM D445	15.4	13.5	13.5	11.2
	Jan17/24	Mac27/24			
S					
	scalar scalar scalar scalar scalar scalar scalar scalar RTIES cSt	scalar *Visual scalar *Visual	scalar *Visual NONE scalar *Visual NONE scalar *Visual NONE scalar *Visual NONE scalar *Visual NONE scalar *Visual NORML scalar *Visual NORML scalar *Visual >0.2 scalar *Visual >0.2 scalar *Visual Scalar *Visual *Visual *Scalar *Scalar *Visual *Scalar *Sc	scalar *Visual NONE NONE scalar *Visual NORML NORML scalar *Visual NORML NORML scalar *Visual >0.2 NEG scalar *Visual >0.2 NEG scalar *Visual NORML NORML scalar *Visual >0.2 NEG scalar *Visual >15.4 13.5	scalar *Visual NONE NONE NONE NONE scalar *Visual NONE NONE NONE scalar *Visual NONE NONE NONE scalar *Visual NONE NONE NONE scalar *Visual NORM NORM NORM NORM scalar *Visual NORM NORM NORM NORM scalar *Visual >0.2 NEG NEG scalar *Visual >0.2 NEG NEG scalar *Visual NEG NEG scalar *Visual NORM NORM NORM

10.0

8 (mg KOH/g)

6 Number (4 Base

0.0

Aug21/23 -

Nov4/23

Mar27/24 -

: 02 Apr 2024

: 03 Apr 2024



Unique Number : 10955550 Diagnosed : 03 Apr 2024 - Wes Davis Test Package : FLEET Contact: Anthony Hopkins Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ahopkins@gflenv.com * - 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)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Tested

Nov4/23

Jan 17/24 -

18 17

16 cSt (100°C)

> 12 11-10

Laboratory

Sample No.

Lab Number : 06136085

Aug21/23

: GFL0115029

Jan 17/24 -

GFL Environmental - 405 - Arbor Hills

Mar27/24

T:

F:

7811 Chubb Rd NORTHVILLE, MI

US 48168