

# **OIL ANALYSIS REPORT**

# Area (DUX488) **AUTOCAR 10672**

**Diesel Engine** 

Fluid PETRO CANADA DURON SHP 15W40 (7 GAL)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

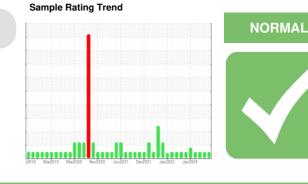
All component wear rates are normal.

#### 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.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0116778	GFL0116755	GFL0116788			
Sample Date		Client Info		03 Jun 2024	17 May 2024	28 Mar 2024			
Machine Age	hrs	Client Info		28855	28752	28580			
Oil Age	hrs	Client Info		4443	4340	4168			
Oil Changed		Client Info		Not Changd	N/A	N/A			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0			
Water		WC Method	>0.2	NEG	NEG	NEG			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METAL	S	method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>75	17	9	48			
Chromium	ppm	ASTM D5185m	>5	<1	0	2			
Nickel	ppm	ASTM D5185m	>4	0	0	<1			
Titanium	ppm	ASTM D5185m	>2	0	0	<1			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>15	4	10	6			
Lead	ppm	ASTM D5185m	>25	0	0	0			
Copper	ppm	ASTM D5185m	>100	4	0	4			
Tin	ppm	ASTM D5185m	>4	<1	<1	<1			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	<1			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	11	8	18			
Barium	ppm	ASTM D5185m	0	<1	0	0			
Molybdenum	ppm	ASTM D5185m	60	58	62	66			
Manganese	ppm	ASTM D5185m	0	<1	<1	<1			
Magnesium	ppm	ASTM D5185m	1010	806	863	731			
Calcium	ppm	ASTM D5185m	1070	1051	1117	1212			
Phosphorus	ppm	ASTM D5185m	1150	973	1004	871			
Zinc	ppm	ASTM D5185m	1270	1122	1213	1143			
Sulfur	ppm	ASTM D5185m	2060	3119	3264	2868			
CONTAMINAN	TS	method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	5	3	11			
Sodium	ppm	ASTM D5185m		6	3	6			
Potassium	ppm	ASTM D5185m	>20	3	20	4			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>6	0.4	0.5	0.6			
Nitration	Abs/cm	*ASTM D7624	>20	7.1	8.1	9.2			
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	18.9	18.3			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation			~ -			10 7			
	Abs/.1mm	*ASTM D7414	>25	12.7	14.4	13.7			
Base Number (BN)	Abs/.1mm mg KOH/g	ASTM D7414 ASTM D2896	>25 9.8	12.7 7.5	14.4 7.2	13.7 6.2			



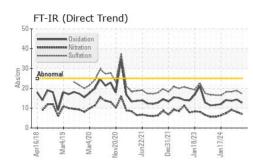
13 - Abno 12 -

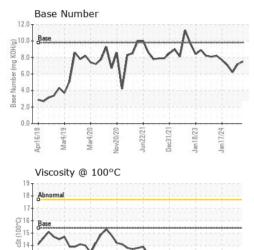
Apr16/18 -

Mar4/19

Aar4/20

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Jan 18/23

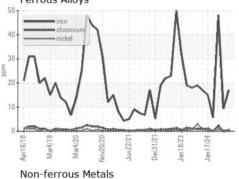
Dec31/21

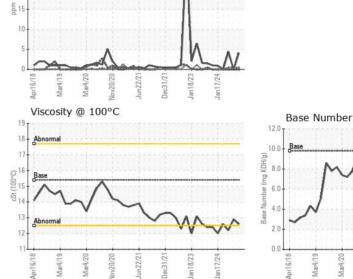
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	12.6	12.9	12.2
GRAPHS						

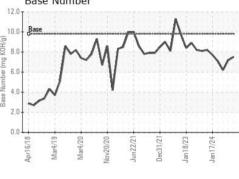
Ferrous Alloys

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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 009 - Fairburn Sample No. : GFL0116778 : 05 Jun 2024 Received 6905 Roosevelt Hwy Lab Number : 06199839 Tested : 05 Jun 2024 Fairburn, GA US 30213 Unique Number : 11061962 Diagnosed : 05 Jun 2024 - Wes Davis Test Package : FLEET Contact: Eric Jones Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. erjones@gflenv.com T: (678)630-9927 \* - 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)

Report Id: GFL009 [WUSCAR] 06199839 (Generated: 06/05/2024 16:41:36) Rev: 1

Submitted By: Eric Jones Page 2 of 2

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