

# **OIL ANALYSIS REPORT**

### Sample Rating Trend









Machine Id 1250M 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**

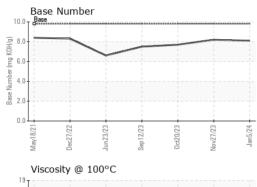
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092971	GFL0092954	GFL0092963
Sample Date		Client Info		05 Jan 2024	27 Nov 2023	20 Oct 2023
Machine Age	hrs	Client Info		13096	12867	12617
Oil Age	hrs	Client Info		12076	12076	12076
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	3	8	21
Chromium		ASTM D5185m		0	0	1
Nickel	ppm		>5	0	0	<1
	ppm	ASTM D5185m				
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		2	3	10
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m		<1	5	5
Tin	ppm		>15	0	<1	1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm		0	3	10	<1
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	57	61	89
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	930	977	1390
Calcium	ppm	ASTM D5185m	1070	1050	1116	1458
Phosphorus	ppm	ASTM D5185m	1150	938	1016	1358
Zinc	ppm	ASTM D5185m	1270	1253	1266	1767
Sulfur	ppm	ASTM D5185m	2060	2856	3065	4317
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	6	6
Sodium	ppm	ASTM D5185m		3	4	11
Potassium	ppm	ASTM D5185m	>20	1	<1	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.5	1.3
Nitration	Abs/cm	*ASTM D7624	>20	7.0	6.6	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	18.7	21.3
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	14.0	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	8.2	7.7
2000 Hambor (DIV)	goriig		5.0	<b>U.</b> 1	0.2	



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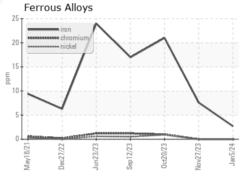


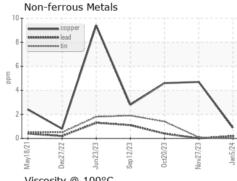


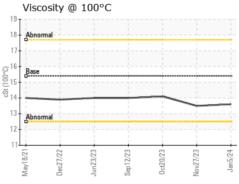
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

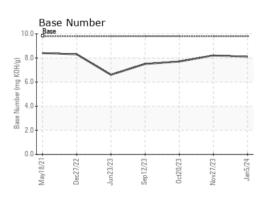
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.5	14.1

### **GRAPHS**













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10823673

: GFL0092971 : 06057724

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 11 Jan 2024 Diagnosed

: 11 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 463 - Cheboygan 501 N. Western Ave

Cheboygan, MI US 49721 Contact: Chris Gee cgee@gflenv.com T: (231)597-8553

\* - 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: GFL463 [WUSCAR] 06057724 (Generated: 01/11/2024 15:33:17) Rev: 1

Submitted By: GFL463 and GFL641 - DYLAN TOLAN