

## **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL

# Machine Id 428060-402359

Component **Diesel Engine** Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0104903	GFL0104912	GFL0104925		
Sample Date		Client Info		14 Mar 2024	30 Jan 2024	29 Dec 2023		
Machine Age	hrs	Client Info		16237	0	16009		
Oil Age	hrs	Client Info		16237	0	16009		
Oil Changed		Client Info		Changed	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	>120	8	8	6		
Chromium	ppm	ASTM D5185m	>20	1	<1	<1		
Nickel	ppm	ASTM D5185m	>5	1	1	0		
Titanium	ppm	ASTM D5185m	>2	<1	<1	0		
Silver	ppm	ASTM D5185m	>2	<1	0	0		
Aluminum	ppm	ASTM D5185m	>20	8	6	2		
Lead	ppm	ASTM D5185m	>40	3	<1	0		
Copper	ppm	ASTM D5185m	>330	4	2	1		
Tin	ppm	ASTM D5185m	>15	2	<1	0		
Vanadium	ppm	ASTM D5185m		<1	0	0		
Cadmium	ppm	ASTM D5185m		<1	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	1	0	2		
Barium	ppm	ASTM D5185m	0	<1	0	0		
Molybdenum	ppm	ASTM D5185m	60	79	54	58		
Manganese	ppm	ASTM D5185m	0	<1	1	<1		
Magnesium	ppm	ASTM D5185m	1010	1289	846	911		
Calcium	ppm	ASTM D5185m	1070	1456	921	1068		
Phosphorus	ppm	ASTM D5185m	1150	1644	938	941		
Zinc	ppm	ASTM D5185m	1270	1692	1145	1181		
Sulfur	ppm	ASTM D5185m	2060	4888	2701	2884		
CONTAMINAN	NTS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	13	9	5		
Sodium	ppm	ASTM D5185m		3	4	3		
Potassium	ppm	ASTM D5185m	>20	5	6	1		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>4	0.1	0.3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	5.5	8.2	6.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	18.8	18.3		
FLUID DEGRA		method	limit/base	current	history1	history2		
1 LOID DEGITIN				Current	i illotor y i	<b>,</b>		
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	15.1	13.9		

### DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

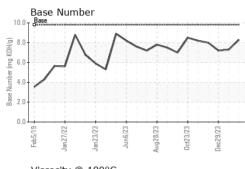
There is no indication of any contamination in the oil.

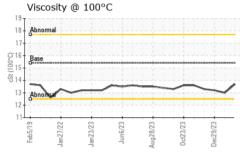
#### Fluid Condition

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

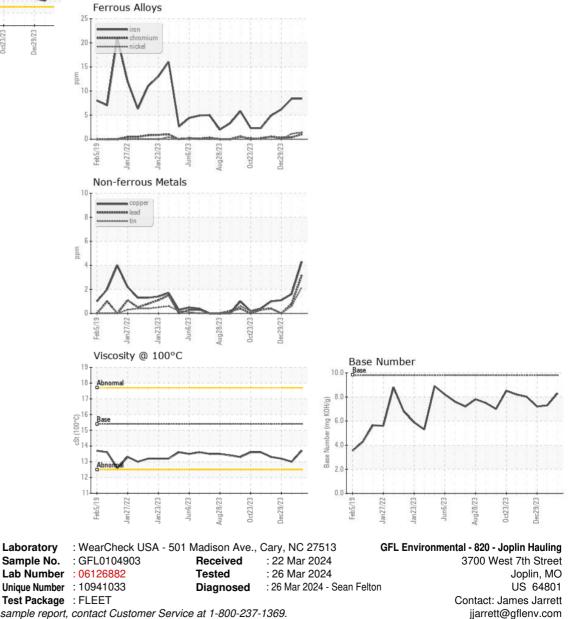


## **OIL ANALYSIS REPORT**





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	13.7	13.0	13.2
GRAPHS						





Certificate 12367 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F:

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