

OIL ANALYSIS REPORT

Sample Rating Trend





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.

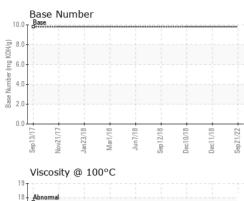
Fluid Condition

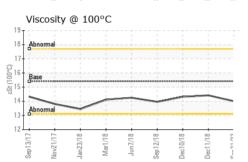
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

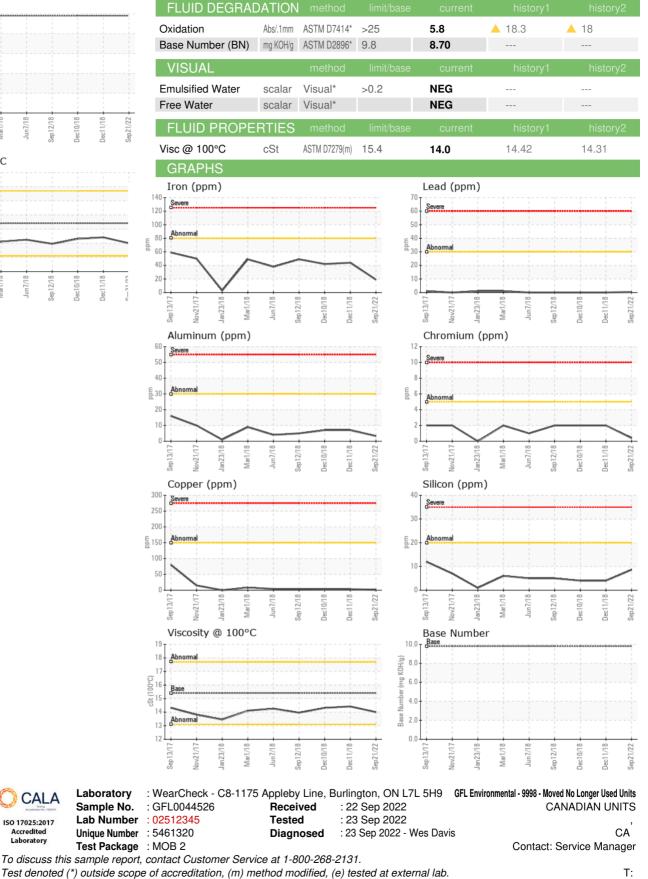
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0044526	GFL31348129	GFL31346544
Sample Date		Client Info		21 Sep 2022	11 Dec 2018	10 Dec 2018
Machine Age	kms	Client Info		216288	0	0
Oil Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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 D5185(m)	>80	19	44	42
Chromium	ppm	ASTM D5185(m)	>5	<1	2	2
Nickel	ppm	ASTM D5185(m)	>2	<1	0	1
Titanium	ppm	ASTM D5185(m)		<1	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	3	▲ 7	▲ 7
Lead	ppm	ASTM D5185(m)	>30	<1	0	0
Copper	ppm	ASTM D5185(m)	>150	1	3	3
Tin	ppm	ASTM D5185(m)	>5	<1	1	1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	3	1	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	58	66	65
Manganese	ppm	ASTM D5185(m)	0	<1		
Magnesium	ppm	ASTM D5185(m)	1010	937	1148	1135
Calcium	ppm	ASTM D5185(m)	1070	1149	1100	1095
Phosphorus	ppm	ASTM D5185(m)	1150	1062	1045	1034
Zinc	ppm	ASTM D5185(m)	1270	1191	1202	1193
Sulfur	ppm	ASTM D5185(m)	2060	2553		
Lithium	ppm	ASTM D5185(m)		<1	0	0
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	9	4	4
Sodium	ppm	ASTM D5185(m)		3	8	8
Potassium	ppm	ASTM D5185(m)	>20	2	8	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0.83	0.82
Nitration	Abs/cm	ASTM D7624*	>20	3.0	▲ 22.5	▲ 22.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	8.2	▲ 9.5	8.8
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CALA

ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No.

Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: Service Manager - GFL9998

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