

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id Component **Diesel Engine**

Fluid

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

DIAGNOSIS	SAMPLE INFOR		method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		GFL0108689	GFL0101501	GFL0093139
Oil and filter change at the time of sampling has	Sample Date		Client Info		24 Jan 2024	30 Nov 2023	10 Nov 2023
been noted. No corrective action is recommended	Machine Age	hrs	Client Info		11288	10806	10649
at this time. Resample at the next service interval to	Oil Age	hrs	Client Info		10806	10649	9998
monitor.	Oil Changed		Client Info		Changed	Changed	Changed
Wear Exhaust valve wear is indicated.	Sample Status				ABNORMAL	NORMAL	NORMAL
Contamination	CONTAMINAT	ION	method	limit/base	current	history1	history2
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
Fluid Condition	Glycol		WC Method		NEG	NEG	NEG
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	10	6	16
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<u> </u>	2	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	<1
	Silver	ppm	ASTM D5185m	>2	<1	0	<1
	Aluminum	ppm	ASTM D5185m	>20	7	2	2
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	<1	1	66
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	<1
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	0	<1	<1	<1
	Barium	ppm	ASTM D5185m	0	<1	2	0
	Molybdenum	ppm	ASTM D5185m	60	56	56	64
	Manganese	ppm	ASTM D5185m	0	<1	0	<1
	Magnesium	ppm	ASTM D5185m	1010	874	870	976
	Calcium	ppm	ASTM D5185m	1070	997	1049	1119
	Phosphorus	ppm	ASTM D5185m	1150	935	926	1050
	Zinc	ppm	ASTM D5185m	1270	1158	1146	1285
	Sulfur	ppm	ASTM D5185m	2060	2535	4207	2681
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	5	14	5
	Sodium	ppm	ASTM D5185m		5	1	8
	Potassium	ppm	ASTM D5185m	>20	17	2	4
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.7	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.6	6.4	8.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	19.1	20.7
	FLUID DEGRA	DATION	method	limit/base	current	history1	history2
	Oxidation	Abs/ 1mm	*ASTM D7414	>25	16.8	14.8	17.0

Base Number (BN) mg KOH/g ASTM D2896 9.8

8.6

8.3

7.5



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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	LIGHT	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
	RTIES	method	limit/base	current	history1	history?
		method	iiiiii/base	Guirein	Thistory	motoryz
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.0	14.5
GRAPHS						

Ferrous Alloys

Non-ferrous Metals

70

60 50





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)

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Certificate L2367

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