

OIL ANALYSIS REPORT

Base Number (BN) mg KOH/g ASTM D2896 9.8 7.8

Sample Rating Trend





Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 GAL

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

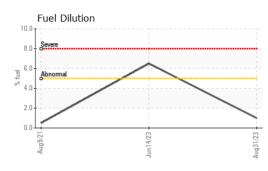
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

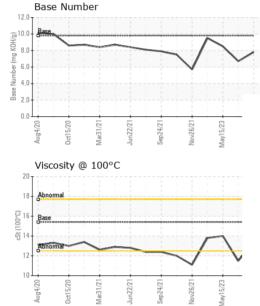
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SAMPLE INFOR	MATION	method	limit/base	current	²³ Aug202: history1	history2
Sample Number		Client Info		GFL0092498	GFL0083629	GFL0083607
Sample Date		Client Info		31 Aug 2023	14 Jun 2023	15 May 2023
Machine Age	hrs	Client Info		8558	7988	7608
Oil Age	hrs	Client Info		572	319	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	7	17	7
Chromium	ppm	ASTM D5185m	>20	<1	2	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	<1	2
Lead	ppm	ASTM D5185m	>40	0	1	0
Copper	ppm	ASTM D5185m	>330	<1	2	0
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	5	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	63	58
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	916	860	959
Calcium	ppm	ASTM D5185m	1070	1087	1049	1041
Phosphorus	ppm	ASTM D5185m	1150	932	942	1040
Zinc	ppm	ASTM D5185m	1270	1187	1147	1289
Sulfur	ppm	ASTM D5185m	2060	3330	3166	3799
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm		>25	3	6	3
Sodium	ppm	ASTM D5185m		4	17	3
Potassium	ppm	ASTM D5185m	>20	1	3	3
Fuel	%	ASTM D3524	>5	1.0	6 .5	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	0.3
5001 /8	Abs/cm	*ASTM D7624	>20	7.2	10.0	6.1
Nitration	A03/011					
	Abs/.1mm	*ASTM D7415	>30	18.2	20.2	18.4
Nitration	Abs/.1mm		>30 limit/base	18.2 current	20.2 history1	18.4 history2

6.7 8.5



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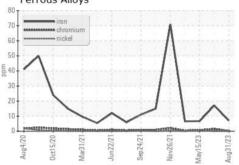


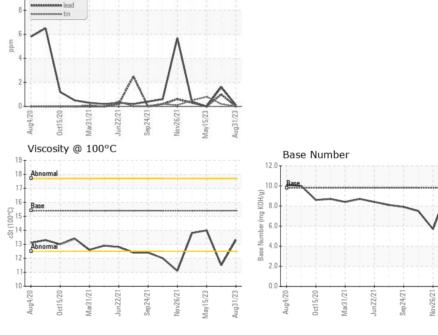
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	13.3	1 1.5	14.0
GRAPHS						

Ferrous Alloys

Non-ferrous Metals

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: 06 Sep 2023

: 07 Sep 2023

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : GFL0092498 Received Lab Number : 05943239 Diagnosed : 10633851 Unique Number Diagnostician : Wes Davis Test Package : FLEET (Additional Tests: PercentFuel) Certificate L2367 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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Aug31/23

May15/23