

OIL ANALYSIS REPORT

Area (YA154678) [B Service] 830007

Natural Gas Engine Flui PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

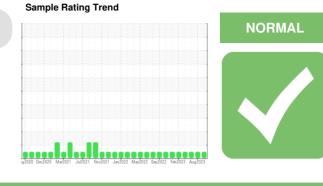
All component wear rates are normal.

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 INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0124452	GFL0087772	GFL0082242
Sample Date		Client Info		03 Jun 2024	17 Aug 2023	17 May 2023
Machine Age	hrs	Client Info		9872	7824	7142
Oil Age	hrs	Client Info		900	1236	554
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	11	21	12
Chromium	ppm	ASTM D5185m	>4	<1	2	1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	2	2	4
Lead	ppm	ASTM D5185m	>30	1	3	<1
Copper	ppm	ASTM D5185m	>35	2	<1	<1
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	19	7	11
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	55	57	54
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	579	599	533
Calcium	ppm	ASTM D5185m	1070	1631	1736	1683
Phosphorus	ppm	ASTM D5185m	1150	817	744	669
Zinc	ppm	ASTM D5185m	1270	973	993	944
Sulfur	ppm	ASTM D5185m	2060	2739	2843	2549
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	6	8	4
Sodium	ppm	ASTM D5185m		4	8	8
Potassium	ppm	ASTM D5185m	>20	2	<1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.3	11.3	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	23.7	21.0

Canadon	/ 100/1111111	//01/110	200		20.7	21.0
FLUID DEGRAD	DATION	method				history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	19.4	17.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.7	3.9	5.2

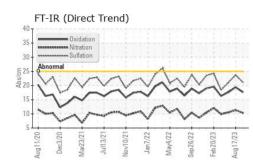


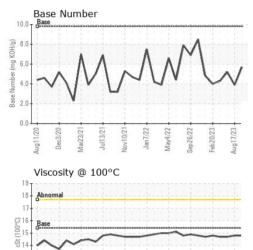
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Dec3/20 Aar23/21

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	>0.1	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	14.8	14.8	14.7
GRAPHS						

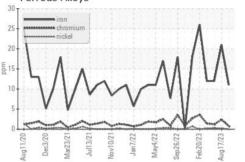
Ferrous Alloys

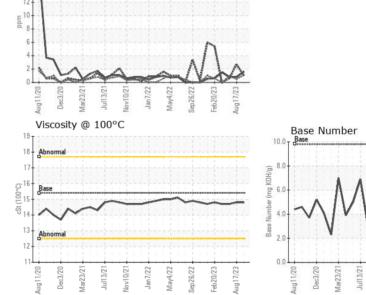
Non-ferrous Metals

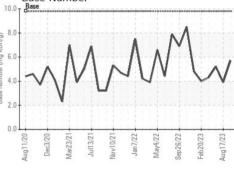
Aug17/23

May4/22 Sep26/22 Feb20/23 18

16 14 12







Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 006 - Wilmington Sample No. : GFL0124452 Received : 05 Jun 2024 3618 US Highway 421 N Lab Number : 06199812 Tested : 05 Jun 2024 Wilmington, NC US 28401 Unique Number : 11061935 Diagnosed : 07 Jun 2024 - Sean Felton Test Package : FLEET Contact: Eric Wood Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. eric.wood@gflenv.com T: (717)723-1956 * - 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: (910)762-6880

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Submitted By: NEIL GRIFFIN

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