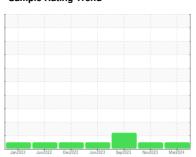


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 591M Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

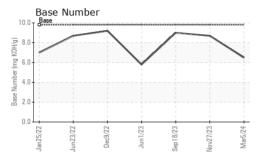
Fluid Condition

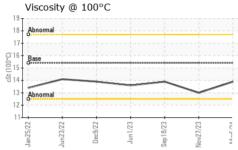
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Janzozz	December December	Jun2023 Sep2023 Nov2023	Mar2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0107794	GFL0096555	GFL0091472
Sample Date		Client Info		05 Mar 2024	27 Nov 2023	18 Sep 2023
Machine Age	hrs	Client Info		10658	10390	10075
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
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	>90	57	8	43
Chromium	ppm	ASTM D5185m	>20	3	<1	4
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	2	8
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	3	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	<1	5
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	57	53	63
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1023	804	966
Calcium	ppm	ASTM D5185m	1070	1158	976	1095
Phosphorus	ppm	ASTM D5185m	1150	961	887	1061
Zinc	ppm	ASTM D5185m	1270	1286	1097	1275
Sulfur	ppm	ASTM D5185m	2060	2627	4057	3887
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	2	24
Sodium	ppm	ASTM D5185m		7	2	<u></u> 133
Potassium	ppm	ASTM D5185m	>20	0	2	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.1	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	12.0	7.8	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	19.2	17.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.7	15.6	13.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.5	8.7	9.0
	39					



OIL ANALYSIS REPORT



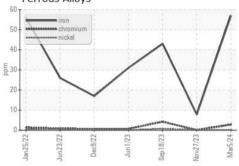


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

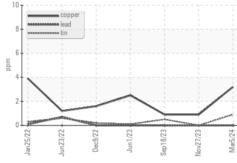
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.0	13.9

GRAPHS

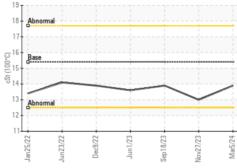
Ferrous Alloys











(mg K0H/g) 0.0

Base Number





Laboratory Sample No.

: GFL0107794 Lab Number : 06110830 Unique Number: 10914327 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Mar 2024 **Tested** : 07 Mar 2024

Diagnosed : 08 Mar 2024 - Don Baldridge

GFL Environmental - 465 - Pontiac

888 Baldwin Pontiac, MI US 48340

Contact: Ricky Matthews rickymathews@gflenv.com T: (586)825-9514

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)

Report Id: GFL465 [WUSCAR] 06110830 (Generated: 03/08/2024 20:00:17) Rev: 1

Submitted By: Ricky Matthews