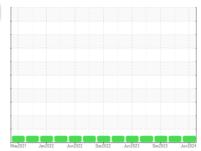


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **423020-864**

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

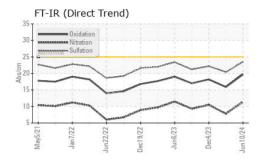
Fluid Condition

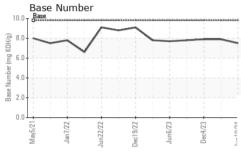
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

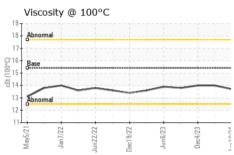
GAL)		May2021	Jan2022 Jun2022	Dec2022 Jun2023 Dec2023	Jun2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100022	GFL0115452	GFL0100050
Sample Date		Client Info		10 Jun 2024	29 Feb 2024	04 Dec 2023
Machine Age	hrs	Client Info		24226	23957	23532
Oil Age	hrs	Client Info		500	500	493
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
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 D5185m	>100	43	23	28
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	4	1
Lead	ppm	ASTM D5185m	>40	5	2	1
Copper	ppm	ASTM D5185m	>330	2	1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
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	10	8	10
Barium	ppm	ASTM D5185m	0	0	0	3
Molybdenum	ppm	ASTM D5185m	60	65	65	65
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	1029	953	881
Calcium	ppm	ASTM D5185m	1070	1272	1167	1116
Phosphorus	ppm	ASTM D5185m	1150	1182	973	993
Zinc	ppm	ASTM D5185m	1270	1428	1215	1210
Sulfur	ppm	ASTM D5185m	2060	3707	3050	3077
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	13	6
Sodium	ppm	ASTM D5185m		14	7	4
Potassium	ppm	ASTM D5185m	>20	2	1	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	11.4	7.8	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	20.4	22.2
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7	15.9	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	7.9	7.9
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OIL ANALYSIS REPORT



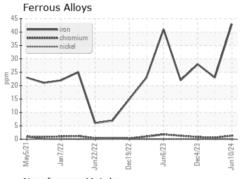


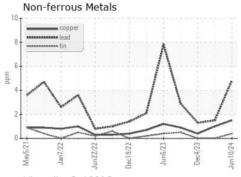


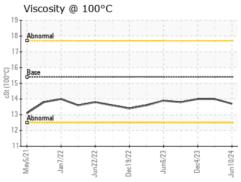
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

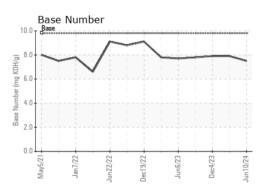
FLUID PROP	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	14.0	14.0

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06211243 Unique Number : 11084107

Test Package : FLEET

: GFL0100022

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 17 Jun 2024 **Tested** Diagnosed

: 18 Jun 2024 : 18 Jun 2024 - Wes Davis

GFL Environmental - 626 - Cadillac Hauling

1501 Ron Wilson St Cadillac, MI US 49601

Contact: GARY BREWER gbrewerjr@gflenv.com T:

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: GFL626 [WUSCAR] 06211243 (Generated: 06/21/2024 22:14:12) Rev: 1

Submitted By: GARY BREWER

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