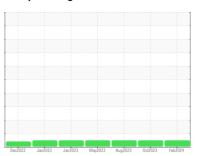


OIL ANALYSIS REPORT

Sample Rating Trend









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

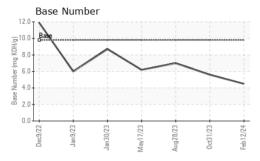
Fluid Condition

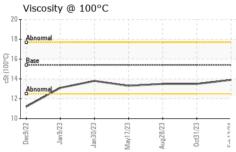
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Dec2022	Janzuza Janzuza	May2023 Aug2023 Oct2023	Feb2024	
SAMPLE INFO	ORMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101066	GFL0092790	GFL0080825
Sample Date		Client Info		12 Feb 2024	31 Oct 2023	28 Aug 2023
Machine Age	hrs	Client Info		15699	15699	15290
Oil Age	hrs	Client Info		14527	14936	15290
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ATION	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 META	ALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	42	19	19
Chromium	ppm		>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	3	5
			>40	6	2	0
Lead	ppm	ASTM D5185m				
Copper	ppm		>330	3	2	1
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	0	4
Barium	ppm	ASTM D5185m	0	0	4	0
Molybdenum	ppm	ASTM D5185m	60	59	55	70
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1011	811	1052
Calcium	ppm	ASTM D5185m	1070	1074	979	1148
Phosphorus	ppm	ASTM D5185m	1150	1004	685	1054
Zinc	ppm	ASTM D5185m	1270	1294	1125	1326
Sulfur	ppm	ASTM D5185m	2060	2505	2042	3329
CONTAMINA	ANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	5	7
Sodium	ppm	ASTM D5185m		8	7	6
Potassium	ppm	ASTM D5185m	>20	2	6	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1.2	0.9	0.6
Nitration	Abs/cm	*ASTM D7624	>20	11.8	9.6	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	22.7	20.3
FLUID DEGR	RADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.1	19.3	16.4
Base Number (BI		ASTM D2896		4.5	5.6	7.0
_ 3.00 (DI	-,		3.0		0.0	



OIL ANALYSIS REPORT

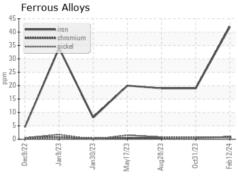


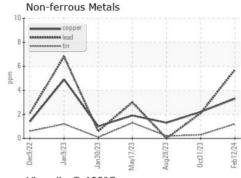


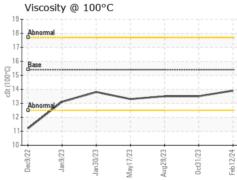
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

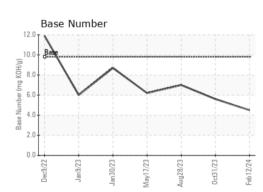
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.5	13.5

GRAPHS













Laboratory Sample No.

: GFL0101066 Lab Number : 06089806 Unique Number: 10882659 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Feb 2024 **Tested** : 16 Feb 2024

Diagnosed : 16 Feb 2024 - Wes Davis GFL Environmental - 455 - Flint

2051 W. Bristol Rd Flint Township, MI US 48507

Contact: MARK WOMBLE mwomble@gflenv.com

T: (586)825-9514

* - 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: GFL455 [WUSCAR] 06089806 (Generated: 02/16/2024 11:41:27) Rev: 1

Submitted By: MARK WOMBLE