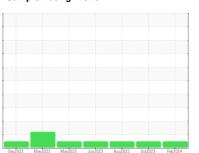


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
474M
Component
Diesel Engine
Fluid

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

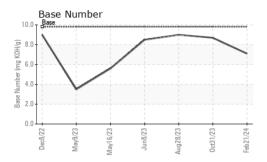
Fluid Condition

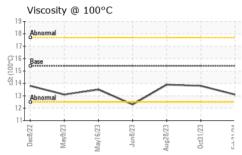
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		D802022	may2023 May2023	Jun2023 Aug2023 Oct2023	Feb2024	
SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101056	GFL0092758	GFL0080816
Sample Date		Client Info		21 Feb 2024	31 Oct 2023	28 Aug 2023
Machine Age	hrs	Client Info		3198	3198	3198
Oil Age	hrs	Client Info		3198	3198	3198
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	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	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	30	10	5
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum		ASTM D5185m	>20	4	3	<1
	ppm		>40	0	0	<1
Lead	ppm	ASTM D5185m				
Copper	ppm	ASTM D5185m	>330	2	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	2	6
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	64	64	60
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	891	1002	1036
Calcium	ppm	ASTM D5185m	1070	1034	1139	1109
Phosphorus	ppm	ASTM D5185m	1150	951	1149	1087
Zinc	ppm	ASTM D5185m	1270	1133	1379	1337
Sulfur	ppm	ASTM D5185m	2060	2702	3067	4031
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	3	5
Sodium	ppm	ASTM D5185m		6	<1	1
Potassium	ppm	ASTM D5185m	>20	5	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.4	6.8	4.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	18.7	17.3
FLUID DEGRA	ADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	14.3	12.5
Base Number (BN)		ASTM D2896		7.1	8.7	9.0
Dasc Nulliber (DIV)	, mg Norry	AUTINI DZ030	0.0	7.1	0.7	0.0



OIL ANALYSIS REPORT

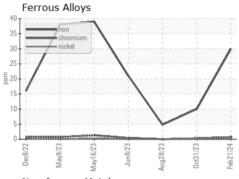


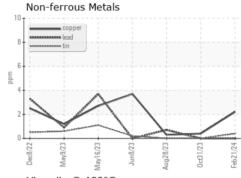


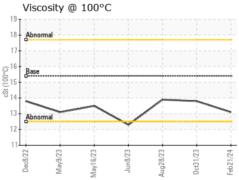
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

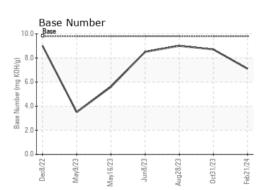
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.8	13.9

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06099824 Unique Number: 10898054 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0101056

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

Received : 26 Feb 2024 **Tested** Diagnosed

: 27 Feb 2024 : 27 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] 06099824 (Generated: 02/27/2024 09:43:25) Rev: 1