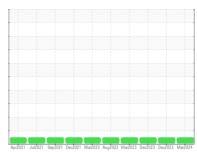


OIL ANALYSIS REPORT

Sample Rating Trend







7801 M 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

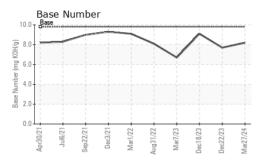
Fluid Condition

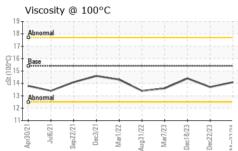
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (- GAL)	Apr2021 Jul2	021 Sep2021 Dec2021 Mar2	022 Aug2022 Mar2023 Dec2023 Dec2	023 Mar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0117713	GFL0105758	GFL0105708
Sample Date		Client Info		27 Mar 2024	22 Dec 2023	18 Dec 2023
Machine Age	hrs	Client Info		18440	17806	17756
Oil Age	hrs	Client Info		17806	16109	16109
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
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
ron	ppm	ASTM D5185m	>120	6	8	4
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	0	<1	12
Tin	ppm	ASTM D5185m	>15	0	0	0
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	2	1	18
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	58	61
Manganese	ppm	ASTM D5185m	0	0	0	0
Magnesium	ppm	ASTM D5185m	1010	916	895	882
Calcium	ppm	ASTM D5185m	1070	1017	1036	985
Phosphorus	ppm	ASTM D5185m	1150	1008	950	858
Zinc	ppm	ASTM D5185m	1270	1232	1176	1119
Sulfur	ppm	ASTM D5185m	2060	3435	3161	2773
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	9
Sodium	ppm	ASTM D5185m		5	39	0
Potassium	ppm	ASTM D5185m	>20	4	3	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.8	8.7	4.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	19.4	17.8
	ATION	ام مالم مدر	limit/base		hioton/1	history2
FLUID DEGRAI	JATION	method	iiiiii/base	current	history1	HISTOLYZ
FLUID DEGRAD Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	16.1	13.3



OIL ANALYSIS REPORT

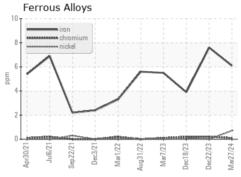


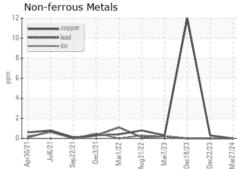


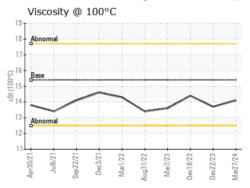
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

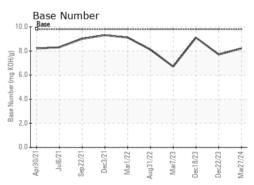
FLUID PROPI	ERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.7	14.4

GRAPHS













Certificate L2367

Laboratory Sample No.

Test Package : FLEET

: GFL0117713 Lab Number : 06133005 Unique Number : 10952470

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Mar 2024 **Tested**

: 31 Mar 2024 Diagnosed : 31 Mar 2024 - Wes Davis

GFL Environmental - 415 - Michigan East

6200 Elmridge Sterling Heights, MI US 48313

Contact: Frank Wolak fwolak@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: GFL415 [WUSCAR] 06133005 (Generated: 03/31/2024 00:49:59) Rev: 1

Submitted By: Frank Wolak