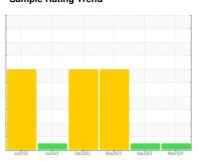


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **525025** 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

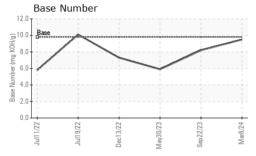
Fluid Condition

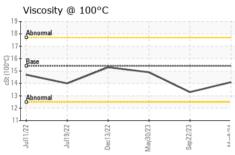
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Jul2022	Jul2022 Dec2022	May2023 Sep2023	Mar2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date		Client Info		GFL0097496 08 Mar 2024	GFL0092895 22 Sep 2023	GFL0067575 30 May 2023
Machine Age Oil Age Oil Changed	hrs hrs	Client Info Client Info Client Info		19787 19552 N/A	19686 19552 N/A	19552 590 Changed
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method	>5 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METAL	C		limit/bass		history1	-
		method	limit/base	current		history2
Iron Chromium	ppm	ASTM D5185m	>100	6 <1	12 <1	48
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	1	15
Lead	ppm	ASTM D5185m	>40	4	<1	4 97
Copper	ppm	ASTM D5185m	>330	4	<1	25
Tin	ppm	ASTM D5185m	>15	1	<1	5
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	11	8	17
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	55	55	14
Manganese	ppm	ASTM D5185m	0	0	<1	1
Magnesium	ppm	ASTM D5185m	1010	822	832	791
Calcium	ppm	ASTM D5185m	1070	1076	992	1562
Phosphorus	ppm	ASTM D5185m	1150	992	931	859
Zinc	ppm	ASTM D5185m	1270	1144	1111	1043
Sulfur	ppm	ASTM D5185m	2060	3145	2795	3517
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	3	9
Sodium	ppm	ASTM D5185m	00	<1	3	8
Potassium	ppm	ASTM D5185m	>20	4	2	13
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	2.6
Nitration	Abs/cm	*ASTM D7624	>20	4.6	6.7	14.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	17.9	30.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	14.4	22.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.5	8.2	5.9



OIL ANALYSIS REPORT

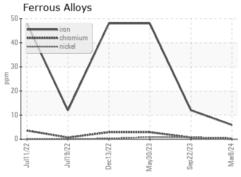


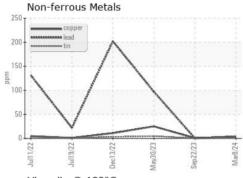


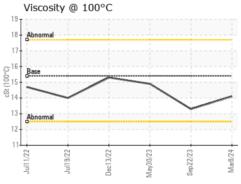
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

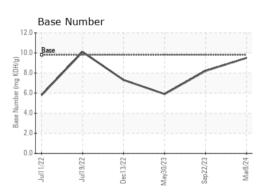
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.3	14.9	

GRAPHS













Certificate L2367

Report Id: GFL641 [WUSCAR] 06116757 (Generated: 03/14/2024 11:35:11) Rev: 1

Laboratory Sample No.

Test Package : FLEET

: GFL0097496 Lab Number : 06116757 Unique Number: 10925590

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Mar 2024 **Tested** : 14 Mar 2024

Diagnosed : 14 Mar 2024 - Wes Davis GFL Environmental - 641 - Alpena

1241 KING SETTLEMENT RD ALPENA, MI US 49707

Contact: DYLAN TOLAN

dylan.tolan@gflenv.com T: (989)854-7203

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)