

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **420054-297** 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

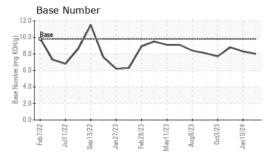
Fluid Condition

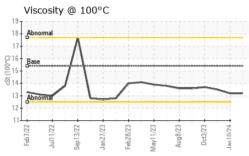
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

`		eb2022 Jul20		2023 May2023 Aug2023 Oct2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110617	GFL0100206	GFL0091242
Sample Date		Client Info		29 Jan 2024	10 Jan 2024	01 Nov 2023
Machine Age	hrs	Client Info		27443	503707	27222
Oil Age	hrs	Client Info		600	491173	150
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<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	>100	35	33	8
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	11	11	5
_ead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	6	5	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
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	<1	<1	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	62	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	869	956	915
Calcium	ppm	ASTM D5185m	1070	892	982	993
Phosphorus	ppm	ASTM D5185m	1150	971	1049	1016
Zinc	ppm	ASTM D5185m	1270	1164	1253	1215
Sulfur	ppm	ASTM D5185m	2060	2851	2987	2945
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	8	6
Sodium	ppm	ASTM D5185m		3	3	3
Potassium	ppm	ASTM D5185m	>20	24	23	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.8	0.6
Nitration	Abs/cm	*ASTM D7624	>20	10.0	9.5	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.5	19.1
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	15.8	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	8.3	8.8



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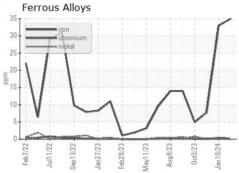


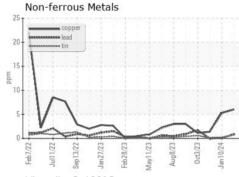


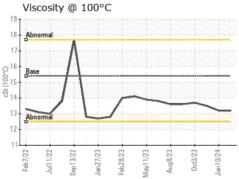
			limit/base	current	history1	history2
White Metal so	calar '	*Visual	NONE	NONE	NONE	NONE
Yellow Metal so	calar '	*Visual	NONE	NONE	NONE	NONE
Precipitate so	calar '	*Visual	NONE	NONE	NONE	NONE
Silt	calar '	*Visual	NONE	NONE	NONE	NONE
Debris so	calar '	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt so	calar '	*Visual	NONE	NONE	NONE	NONE
Appearance so	calar '	*Visual	NORML	NORML	NORML	NORML
Odor so	calar '	*Visual	NORML	NORML	NORML	NORML
Emulsified Water so	calar '	*Visual	>0.2	NEG	NEG	NEG
Free Water so	calar '	*Visual		NEG	NEG	NEG

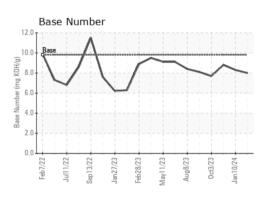
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.2	13.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10860037 Test Package : FLEET

: GFL0110617 : 06077946

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 02 Feb 2024 : 02 Feb 2024 Diagnosed

Diagnostician : Wes Davis

GFL Environmental - 166 - Phenix City

18 Old Brickyard Rd Phenix City, AL US 36869

Contact: DEAN PEACE JR dean.peace@gflenv.com

* - 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) T:

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