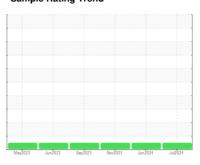


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **427184 - SW4724**

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

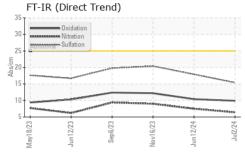
Fluid Condition

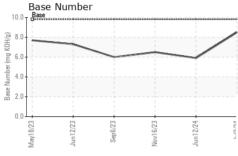
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

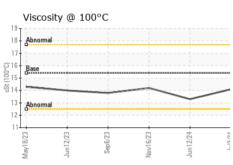
JAL)		May2023	Junzuza Sepzuza	NOVZUZ3 JUNZUZ4	JUI2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123582	GFL0123528	GFL0094126
Sample Date		Client Info		02 Jul 2024	12 Jun 2024	16 Nov 2023
Machine Age	mls	Client Info		361182	358831	363621
Oil Age	mls	Client Info		361182	358831	363621
Oil Changed		Client Info		Not Changd	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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
Iron	ppm	ASTM D5185m	>100	10	2	6
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	<1	1
Lead	ppm	ASTM D5185m	>40	2	0	1
Copper	ppm	ASTM D5185m	>330	2	0	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	39	49	43
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	33	20	30
Calcium	ppm	ASTM D5185m	1070	2776	2704	2381
Phosphorus	ppm	ASTM D5185m	1150	1007	1095	1096
Zinc	ppm	ASTM D5185m	1270	1216	1338	1193
Sulfur	ppm	ASTM D5185m	2060	3003	3721	2871
CONTAMINANTS method limit/base current history1 history2						
Silicon	ppm	ASTM D5185m	>25	10	4	6
Sodium	ppm	ASTM D5185m		4	2	2
Potassium	ppm	ASTM D5185m	>20	3	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.4	7.5	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.4	17.9	20.4
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.9	10.4	12.2
Base Number (BN)	mg KOH/g	ASTM D2896		8.5	5.9	6.5
()	0 - 9					



OIL ANALYSIS REPORT



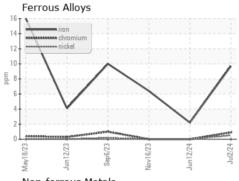


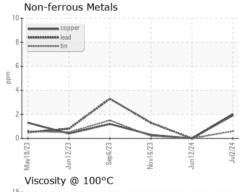


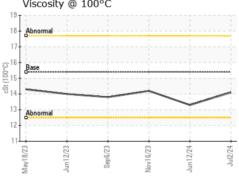
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

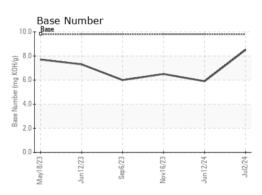
FLUID PROP	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	13.3	14.2

GRAPHS













Laboratory

Sample No. : GFL0123582 Lab Number : 06229876

Unique Number : 11113369 Test Package : FLEET

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

Received : 08 Jul 2024 **Tested** : 09 Jul 2024

Diagnosed : 09 Jul 2024 - Don Baldridge

16011 West Belfort Street

Sugar Land, TX US 77498 Contact: Adrian Martinez

adrianmartinez@gflenv.com

Certificate 12367 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: GFL983 [WUSCAR] 06229876 (Generated: 07/09/2024 18:22:48) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

GFL Environmental - 983 - Sugar Land Hauling

T:

F: