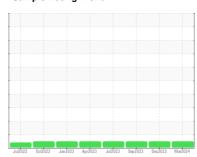


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **412060**

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

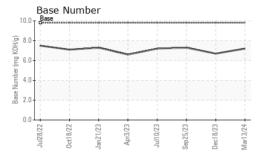
Fluid Condition

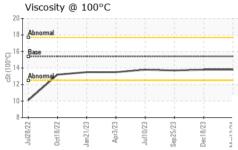
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

	method	limit/base			
		iiiiii/base	current	history1	history2
Sample Number	Client Info		GFL0116169	GFL0104583	GFL0082520
Sample Date	Client Info		13 Mar 2024	18 Dec 2023	25 Sep 2023
Machine Age hrs C	Client Info		4752	4152	3594
Oil Age hrs C	Client Info		600	558	610
Oil Changed	Client Info		Changed	Not Changd	Changed
Sample Status			NORMAL	NORMAL	NORMAL
CONTAMINATION	method	limit/base	current	history1	history2
Fuel V	VC Method	>5	<1.0	<1.0	<1.0
Water V	VC Method	>0.2	NEG	NEG	NEG
Glycol V	VC Method		NEG	NEG	NEG
WEAR METALS	method	limit/base	current	history1	history2
Iron ppm A	STM D5185m	>100	14	9	9
Chromium ppm A	ASTM D5185m	>20	1	<1	<1
111	STM D5185m	>4	4	1	2
Titanium ppm A	STM D5185m		0	0	0
Silver ppm A	STM D5185m	>3	0	0	0
Aluminum ppm A	STM D5185m	>20	4	1	3
Lead ppm A	STM D5185m	>40	<1	0	0
		>330	6	8	3
	STM D5185m	>15	1	0	<1
Vanadium ppm A	STM D5185m		0	0	0
	STM D5185m		0	0	0
ADDITIVES	method	limit/base	current	history1	history2
Boron ppm A	STM D5185m	0	<1	<1	2
Barium ppm A	STM D5185m	0	0	0	<1
Molybdenum ppm A	STM D5185m	60	63	56	62
Manganese ppm A	STM D5185m	0	<1	<1	<1
3 - -	STM D5185m	1010	1040	941	962
	STM D5185m	1070	1165	1078	1061
	STM D5185m	1150	1110	889	1003
	STM D5185m	1270	1326	1185	1233
	STM D5185m	2060	3182	2357	2700
CONTAMINANTS	method	limit/base	current	history1	history2
	STM D5185m	>25	6	5	6
	STM D5185m		4	4	4
	STM D5185m	>20	4	2	8
INFRA-RED	method	limit/base	current	history1	history2
	ASTM D7844	>3	0.6	0.5	0.5
	ASTM D7624	>20	9.0	8.5	8.1
	ASTM D7415	>30	20.1	20.1	19.5
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation Abs/.1mm */ Base Number (BN) mg KOH/g A	ASTM D7414	>25	17.0	17.2	16.3



OIL ANALYSIS REPORT

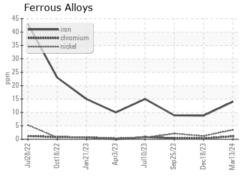


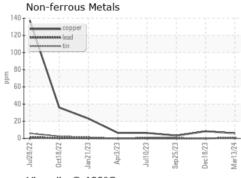


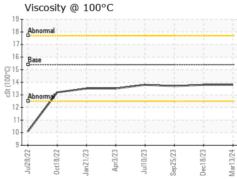
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

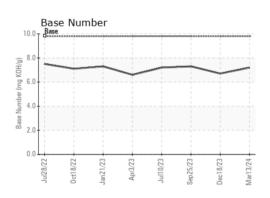
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.8	13.7

GRAPHS













Laboratory Sample No.

Lab Number : 06121436 Unique Number: 10930269 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0116169 Received : 18 Mar 2024 **Tested**

: 19 Mar 2024 Diagnosed

: 20 Mar 2024 - Don Baldridge

GFL Environmental - 947 - WB Horicon HC

N7296 County Rd V Horicon, WI US 53032

Contact: Tim Kieffer tim.kieffer@gflenv.com T: (608)219-0288

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)