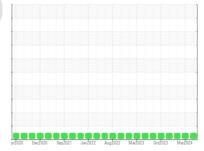


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 910002 Component

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 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

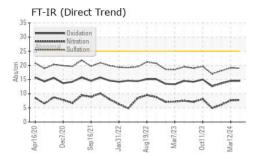
Fluid Condition

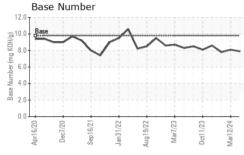
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

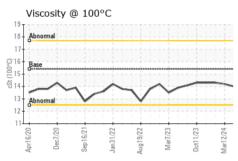
GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0071993	GFL0072134	GFL0072047
Sample Date		Client Info		20 May 2024	12 Mar 2024	05 Dec 2023
Machine Age	hrs	Client Info		12004	11512	10929
Oil Age	hrs	Client Info		493	600	600
Oil Changed		Client Info		Changed	Changed	Changed
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	13	2
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
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	2	2	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	63	48
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	1010	931	943	843
Calcium	ppm	ASTM D5185m	1070	1053	1084	744
Phosphorus	ppm	ASTM D5185m	1150	1025	999	744
Zinc	ppm	ASTM D5185m	1270	1234	1234	930
Sulfur	ppm	ASTM D5185m	2060	3289	3109	2306
CONTAMINANTS method limit/base current history1 history2						hiotory
CONTAMINAN	IIS	method	limit/base	current	history1	HISTOLA
CONTAMINAN Silicon	ppm	method ASTM D5185m	limit/base	current 3	history1 4	3
					•	
Silicon	ppm	ASTM D5185m	>25	3	4	3
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>25	3 2	4 2	3 2
Silicon Sodium Potassium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	3 2 <1	4 2 2	3 2 7
Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >20 limit/base	3 2 <1 current	4 2 2 history1	3 2 7 history2
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844	>25 >20 limit/base >3	3 2 <1 current 0.5	4 2 2 2 history1 0.6	3 2 7 history2 0.3
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >3 >20	3 2 <1 current 0.5 7.8	4 2 2 2 history1 0.6 7.6	3 2 7 history2 0.3 6.1
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >3 >20 >30	3 2 <1 current 0.5 7.8 19.0	4 2 2 history1 0.6 7.6 19.1	3 2 7 history2 0.3 6.1 18.1



OIL ANALYSIS REPORT



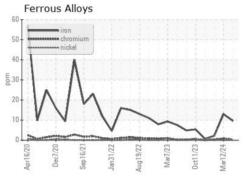


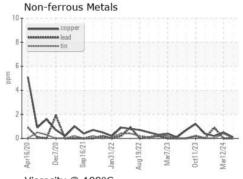


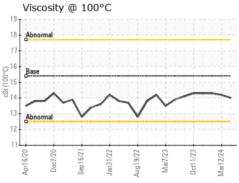
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

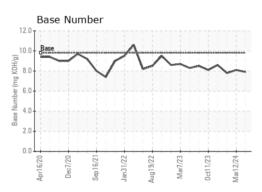
FLUID PROPE	ERITES	method	ilmivbase		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.2	14.3

GRAPHS













Laboratory Sample No. Unique Number : 11044027

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0071993 Lab Number : 06187275

Received : 22 May 2024 **Tested** : 23 May 2024

Diagnosed : 23 May 2024 - Wes Davis

2097 Buchanan Highway Cedartown, GA

US 30125 Contact: WILLIAM FOSTER william.foster@gflenv.com

T: (800)207-6618

GFL Environmental - 094 - Cedartown

Test Package : FLEET 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)