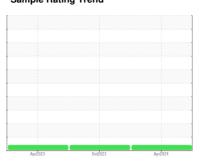


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 727176 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (22 G

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. 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.

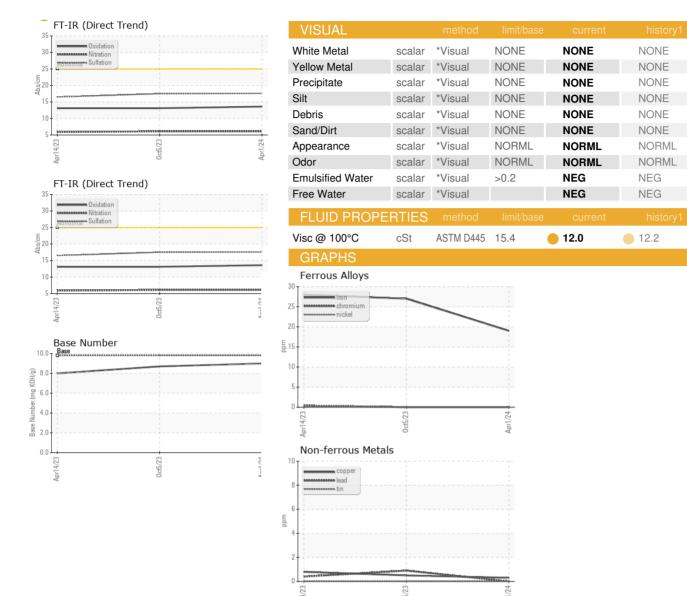
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

QTS)		Ap	2023	Oct2023 Apr20	24	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110784	GFL0092852	GFL0076895
Sample Date		Client Info		01 Apr 2024	05 Oct 2023	14 Apr 2023
Machine Age	hrs	Client Info		18996	18823	18594
Oil Age	hrs	Client Info		173	274	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<1.0	<1.0	1.3
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	19	27	28
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	1	0
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	0
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	6	12	15
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	63	69
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	961	916	925
Calcium	ppm	ASTM D5185m	1070	1153	1103	1134
Phosphorus	ppm	ASTM D5185m	1150	1053	985	1048
Zinc	ppm	ASTM D5185m	1270	1236	1189	1231
Sulfur	ppm	ASTM D5185m	2060	3776	3031	3271
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	3
Sodium	ppm	ASTM D5185m		14	9	19
Potassium	ppm	ASTM D5185m	>20	<1	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.1	6.1	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	17.5	16.5
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	13.1	13.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	8.7	8.0



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: GFL0110784 Lab Number : 06141959 Unique Number : 10966767

<u>2</u>15 ₹ 14

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Apr 2024 **Tested** : 09 Apr 2024

Diagnosed : 10 Apr 2024 - Don Baldridge

GFL Environmental - 411 - Kingsford HC

Base Number

(mg K0H/g)

0.0

1001 E Blvd Kingsford, MI US 49802 Contact: Service Manager

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

12.3

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

Viscosity @ 100°C

* - 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: GFL411 [WUSCAR] 06141959 (Generated: 04/10/2024 20:32:44) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

T:

F: