

OIL ANALYSIS REPORT

T







Area
(83J 44U)
913147
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

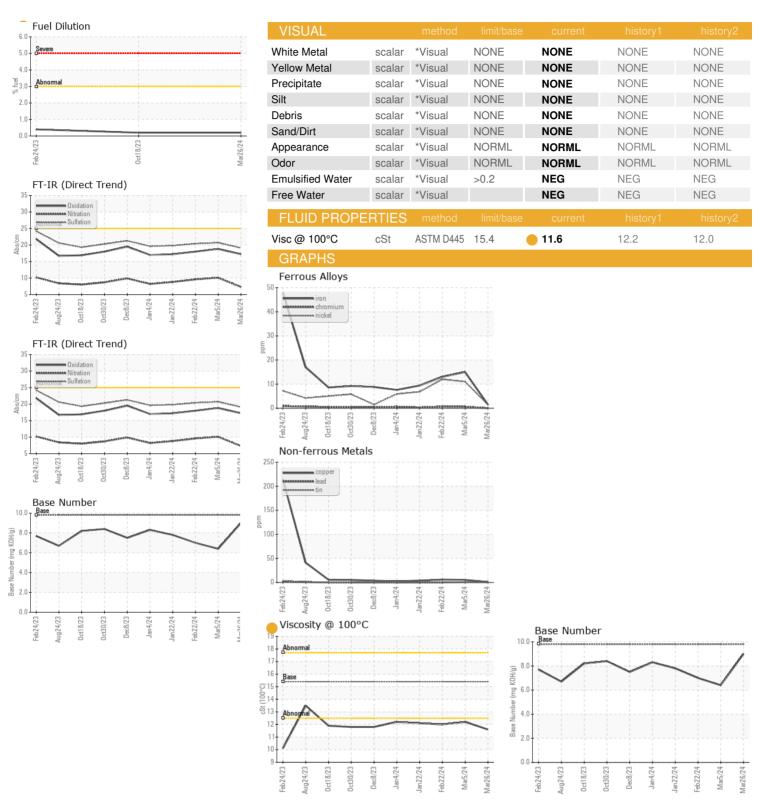
Fluid Condition

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

ON SHP 15W40 (GAL) February Octobers						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0114173	GFL0114125	GFL0108060
Sample Date		Client Info		26 Mar 2024	05 Mar 2024	22 Feb 2024
Machine Age	hrs	Client Info		3103	2970	2908
Oil Age	hrs	Client Info		0	1857	1051
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ATTENTION	SEVERE	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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	>120	2	15	13
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	2	1 1	1 2
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	2
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	<1	5	6
Tin	ppm	ASTM D5185m	>15	0	0	1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	57	15	23
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	55	58	64
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1142	1130	1136
Calcium	ppm	ASTM D5185m	1070	872	913	932
Phosphorus	ppm	ASTM D5185m	1150	960	1032	1135
Zinc	ppm	ASTM D5185m	1270	1299	1296	1360
Sulfur	ppm	ASTM D5185m	2060	3975	3674	3346
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	6	8
Sodium	ppm	ASTM D5185m		4	7	8
Potassium	ppm	ASTM D5185m	>20	<1	2	3
Fuel	%	ASTM D3524	>3.0	0.2	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.3	10.1	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	20.7	20.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	18.8	18.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	6.4	7.0
. ,						



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: GFL0114173 Lab Number : 06139203 Unique Number : 10964011

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed

: 04 Apr 2024 : 09 Apr 2024

: 09 Apr 2024 - Jonathan Hester

7801 East Truman Road Kansas City, MO

GFL Environmental - 836 - Kansas City Hauling

US 64126 Contact: Loyce Stewart loyce.stewart@gflenv.com

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

Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Report Id: GFL836 [WUSCAR] 06139203 (Generated: 04/09/2024 15:11:01) Rev: 1

Submitted By: JEREMY BROWN

T:

F: