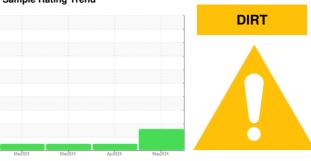


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **325053**

Diesel Engine

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

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. The oil 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

Elemental level of silicon (Si) above normal.

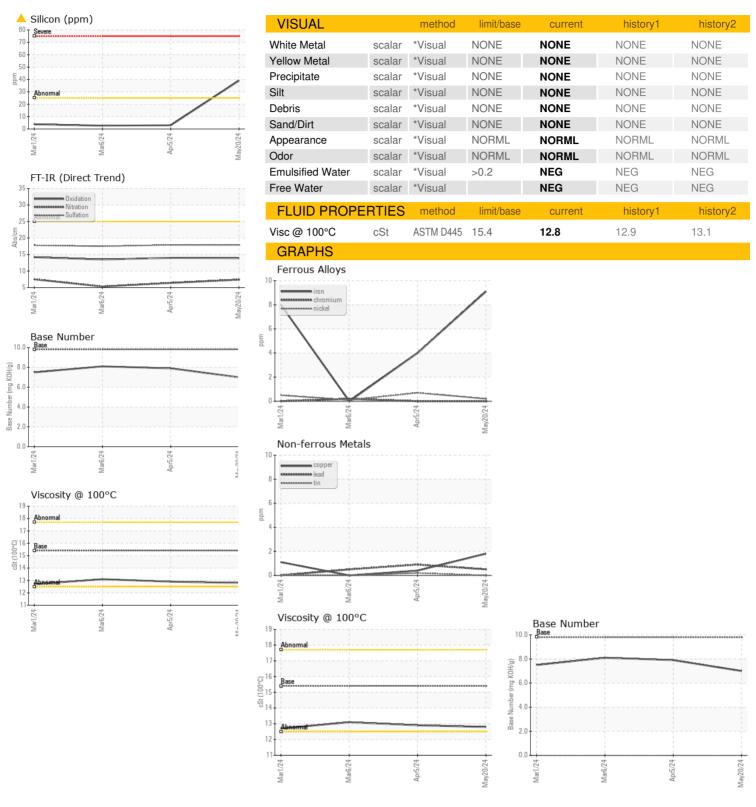
Fluid Condition

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

GAL)		Mar202	4 Mar2024	Apr2024 M	ay2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111472	GFL0068850	GFL0068899
Sample Date		Client Info		20 May 2024	05 Apr 2024	06 Mar 2024
Machine Age	hrs	Client Info		20337	20100	19968
Oil Age	hrs	Client Info		369	132	19968
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	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	9	4	0
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	1
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	<1	0
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	2	5
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	56	54
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	895	1006	949
Calcium	ppm	ASTM D5185m	1070	1101	1094	1010
Phosphorus	ppm	ASTM D5185m	1150	1033	1027	989
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1270 2060	1255 3569	1321 3742	1208 3004
	ppm					
CONTAMINAN		method	limit/base	current	history1	history2 3
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>25	▲ 39 44	3	2
Potassium	ppm	ASTM D5185m	>20	6	1	2
INFRA-RED	• • •	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.4	6.4	5.3
Sulfation	Abs/.1mm		>30	17.9	17.9	17.5
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	14.0	13.5
Base Number (BN)	mg KOH/g	ASTM D2896		7.0	7.9	8.1
(=)	99					



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: GFL0111472 Lab Number : 06187508 Unique Number : 11044260 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 May 2024 **Tested**

: 23 May 2024 Diagnosed : 24 May 2024 - Don Baldridge

GFL Environmental - 073 - Warner Robins - Transwaste 155 Story Road Warner Robins, GA

US 31093 Contact: JOSH MALONEY

jmaloney@gflenv.com T:

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)

F: