

OIL ANALYSIS REPORT

Sample Rating Trend



(Flag Machine Id 11224 Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Area

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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0104072	GFL0046543	GFL0035568	
Sample Date		Client Info		11 Apr 2024	11 Mar 2022	02 Nov 2021	
Machine Age	hrs	Client Info		12607	10968	1032	
Oil Age	hrs	Client Info		600	600	600	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ON	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	14	4	6	
Chromium	ppm	ASTM D5185m	>20	0	<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	<1	1	2	
Lead	ppm	ASTM D5185m	>40	0	<1	<1	
Copper	ppm	ASTM D5185m	>330	0	<1	1	
Tin	ppm	ASTM D5185m	>15	0	<1	<1	
Antimony	ppm	ASTM D5185m				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	9	19	20	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	56	62	63	
Manganese	ppm	ASTM D5185m	0	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	886	975	944	
Calcium	ppm	ASTM D5185m	1070	1047	1184	1127	
Phosphorus	ppm	ASTM D5185m	1150	1027	1074	1003	
Zinc	ppm	ASTM D5185m	1270	1162	1222	1197	
Sulfur	ppm	ASTM D5185m	2060	3311	2848	2714	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	3	3	
Sodium	ppm	ASTM D5185m		2	<1	2	
Potassium	ppm	ASTM D5185m	>20	0	0	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	5.9	4.7	7.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	19.3	18.7	
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	14.4	14.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.2	10.8	8.5	
5:59:31) Bev: 1					Submitted By: TRAVIS PORCH		



OIL ANALYSIS REPORT

*Visual

*Visual

*Visual

*Visual

*Visual

*Visual

*Visual

*Visual

ASTM D445

Mar11/22

Mar11/22

Mar11/22 -

NONE

NONE

NONE

NONE

NONE

NONE

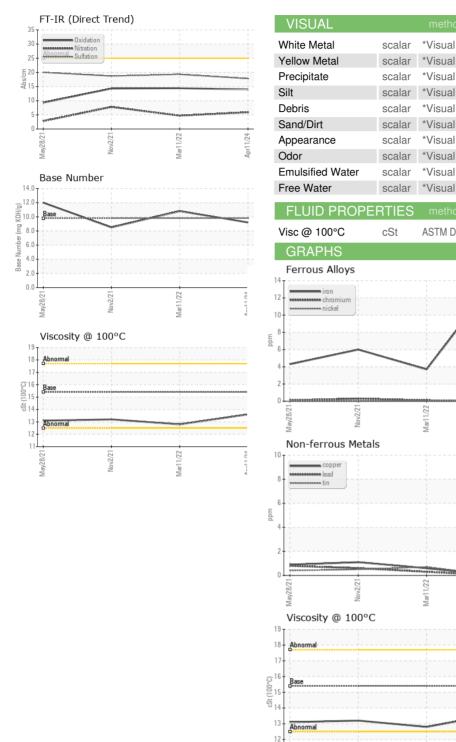
NORML

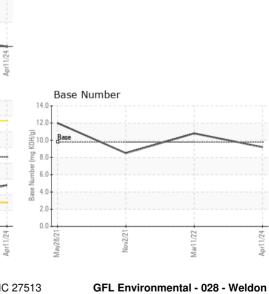
NORML

>0.2

15.4

Apr11/24





NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

13.6

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

12.8

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

13.2



Nov2/21

Mav28/21

Report Id: GFL028 [WUSCAR] 06148289 (Generated: 04/16/2024 05:59:31) Rev: 1

Submitted By: TRAVIS PORCH

Page 2 of 2