

OIL ANALYSIS REPORT

Area (EPQ788) 911056

Diesel Engine

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

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

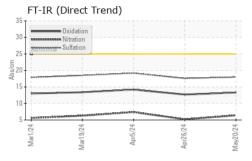
Fluid Condition

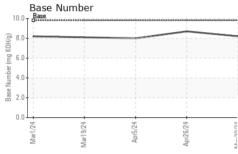
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

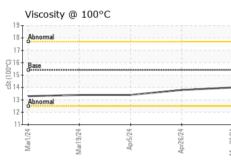
AAL)		Mar2U24	Marzuz4	Aprzuz4 Aprzuz4	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0111504	GFL0111474	GFL0068849	
Sample Date		Client Info		20 May 2024	26 Apr 2024	05 Apr 2024	
Machine Age	hrs	Client Info		1997	1762	1647	
Oil Age	hrs	Client Info		350	115	254	
Oil Changed		Client Info		Not Changd	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<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	>90	7	2	19	
Chromium	ppm	ASTM D5185m	>20	<1	0	2	
Nickel	ppm	ASTM D5185m	>2	0	0	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	<1	
Silver	ppm	ASTM D5185m	>2	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	2	7	
Lead	ppm	ASTM D5185m	>40	<1	0	<1	
Copper	ppm	ASTM D5185m	>330	<1	0	<1	
Tin	ppm	ASTM D5185m	>15	0	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	4	2	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	54	57	
Manganese	ppm	ASTM D5185m	0	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	999	864	971	
Calcium	ppm	ASTM D5185m	1070	1100	931	1084	
Phosphorus	ppm	ASTM D5185m	1150	1069	957	1032	
Zinc	ppm	ASTM D5185m	1270	1321	1123	1291	
Sulfur	ppm	ASTM D5185m	2060	3685	3318	3656	
CONTAMINANTS method limit/base current history1 hist						history2	
Silicon	ppm	ASTM D5185m	>25	3	3	9	
Sodium	ppm	ASTM D5185m		2	<1	3	
Potassium	ppm	ASTM D5185m	>20	5	1	8	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.4	0.2	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	6.4	5.2	7.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	17.6	19.2	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	12.7	14.2	
Base Number (BN)	mg KOH/g	ASTM D2896		8.2	8.7	8.0	
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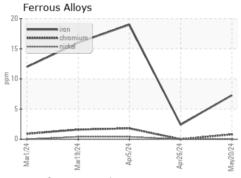


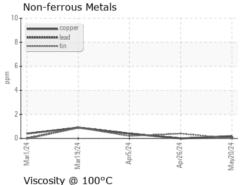


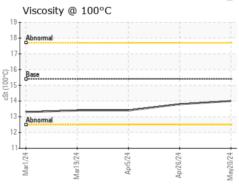
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

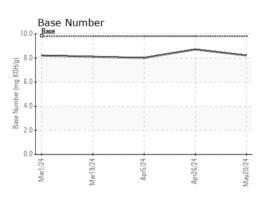
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.8	13.4

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0111504 Lab Number : 06187495 Unique Number : 11044247 Test Package : FLEET

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

: 23 May 2024 : 23 May 2024 - Wes Davis

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

Warner Robins, GA US 31093

Contact: JOSH MALONEY jmaloney@gflenv.com

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) Report Id: GFL073 [WUSCAR] 06187495 (Generated: 05/23/2024 16:42:18) Rev: 1

Submitted By: JOSH MALONEY

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