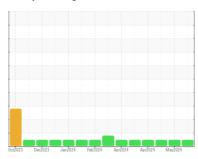


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 914030

Component

Diesel Engine

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

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

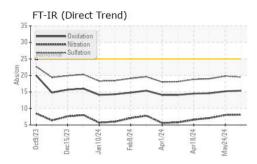
Fluid Condition

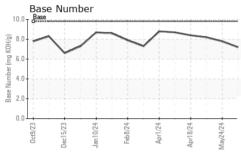
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

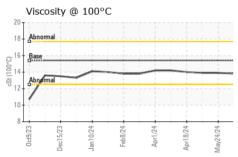
GAL)		0ct2023 D	ec2023 Jan2024 Feb	2024 Apr2024 Apr2024	May2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0093439	GFL0093509	GFL0109304	
Sample Date		Client Info		29 May 2024	24 May 2024	07 May 2024	
Machine Age	hrs	Client Info		2341	2272	2140	
Oil Age	hrs	Client Info		594	525	493	
Oil Changed		Client Info		Changed	Not Changd	Not Changd	
Sample Status				NORMAL	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	18	17	13	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	2	3	2	
Titanium	ppm	ASTM D5185m		8	9	9	
Silver	ppm	ASTM D5185m	>3	<1	<1	0	
Aluminum	ppm	ASTM D5185m	>20	2	3	1	
Lead	ppm	ASTM D5185m	>40	0	<1	2	
Copper	ppm	ASTM D5185m	>330	6	6	6	
Tin	ppm	ASTM D5185m	>15	<1	1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	7	7	6	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	52	56	56	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	909	936	950	
Calcium	ppm	ASTM D5185m	1070	1100	1158	1183	
Phosphorus	ppm	ASTM D5185m	1150	1017	1049	1064	
Zinc	ppm	ASTM D5185m	1270	1235	1269	1278	
Sulfur	ppm	ASTM D5185m	2060	3218	3387	3598	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	5	4	
Sodium	ppm	ASTM D5185m		6	4	4	
Potassium	ppm	ASTM D5185m	>20	7	6	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.7	0.6	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.0	7.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	19.8	19.0	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	15.2	14.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.2	7.8	8.2	
. ,							



OIL ANALYSIS REPORT



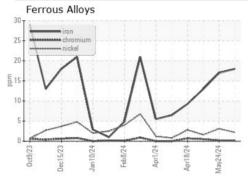


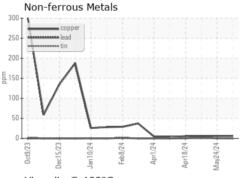


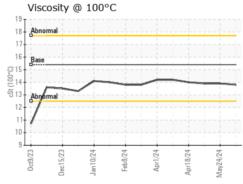
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

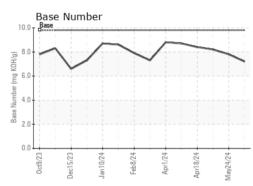
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	13.9

GRAPHS













Certificate 12367

Sample No. Unique Number : 11058551 Test Package : FLEET

: GFL0093439 Lab Number : 06196428

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

Received : 31 May 2024 : 03 Jun 2024 Diagnosed : 03 Jun 2024 - Wes Davis

GFL Environmental - 891 - Oklahoma City Hauling 1001 South Rockwell Oklahoma City, OK

US 73128 Contact: Andy Smith andrew.smith@gflenv.com T: (405)306-1651

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: GFL891 [WUSCAR] 06196428 (Generated: 06/03/2024 08:10:17) Rev: 1