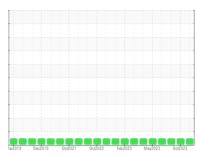


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **525051-651125**

Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

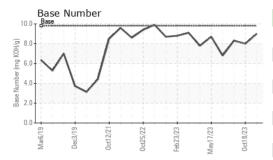
Fluid Condition

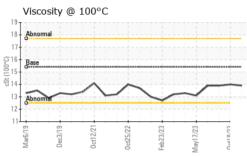
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101107	GFL0098470	GFL0087046
Sample Date		Client Info		09 Nov 2023	18 Oct 2023	18 Sep 2023
Machine Age	hrs	Client Info		150	0	0
Oil Age	hrs	Client Info		600	500	0
Oil Changed		Client Info		Not Changd	Changed	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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	5	8	7
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	2	5	<1
Lead	ppm	ASTM D5185m	>45	1	1	<1
Copper	ppm	ASTM D5185m	>85	1	2	<1
Tin		ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m	>4	<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES	ррш	method	limit/base			
				current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	3	0
Barium	ppm		0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	54	57
Manganese	ppm		0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	848	847	931
Calcium	ppm	ASTM D5185m	1070	1108	1030	1140
Phosphorus	ppm	ASTM D5185m	1150	977	997	989
Zinc	ppm	ASTM D5185m	1270	1150	1165	1219
Sulfur	ppm	ASTM D5185m	2060	3051	2760	3654
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	4	5	4
Sodium	ppm	ASTM D5185m		16	3	<1
Potassium	ppm	ASTM D5185m	>20	3	5	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.4	7.8	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	20.1	18.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	16.7	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	8.0	8.3



OIL ANALYSIS REPORT

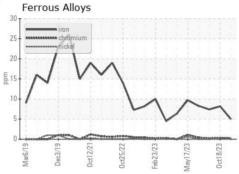


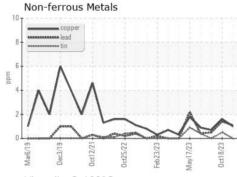


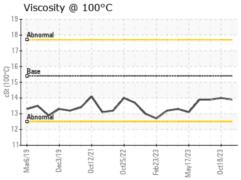
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

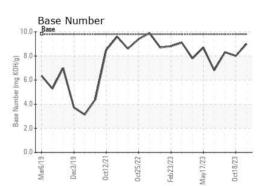
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.0	13.9

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10741801 Test Package : FLEET

: GFL0101107 : 06008039

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Nov 2023 Diagnosed : 15 Nov 2023 Diagnostician : Wes Davis

GFL Environmental - 846 - Mayfield Hauling

3426 State Route 45 Mayfield, KY US 42066

Contact: Jack Lindsey jack.lindsey@gflenv.com

T: (270)970-3690

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: GFL846 [WUSCAR] 06008039 (Generated: 11/15/2023 16:30:36) Rev: 1

Contact/Location: Jack Lindsey - GFL846