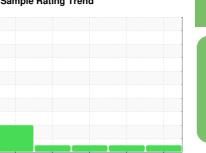


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id **413065** 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

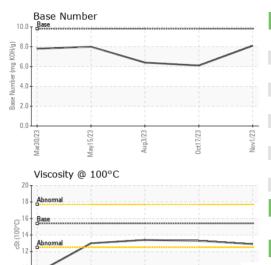
Fluid Condition

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

14 3111 13W 40 (GAL)	Mar2023	May2023	Aug2023 Oct2023	Nov2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094109	GFL0094144	GFL0085505
Sample Date		Client Info		01 Nov 2023	17 Oct 2023	03 Aug 2023
Machine Age	mls	Client Info		32468	31047	22745
Oil Age	mls	Client Info		32468	31047	22745
Oil Changed		Client Info		N/A	N/A	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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	2	1	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	1	<1
Lead	ppm	ASTM D5185m	>40	<1	0	2
Copper	ppm	ASTM D5185m	>330	5	42	157
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	5	0	0
Molybdenum	ppm	ASTM D5185m	60	49	47	41
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	4	6	11
Calcium	ppm	ASTM D5185m	1070	2475	2338	2445
Phosphorus	ppm	ASTM D5185m	1150	1025	1044	1015
Zinc	ppm	ASTM D5185m	1270	1162	1247	1234
Sulfur	ppm	ASTM D5185m	2060	3006	2806	3383
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	6	8
Sodium	ppm	ASTM D5185m		0	1	3
Potassium	ppm	ASTM D5185m	>20	2	4	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.0	7.5	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.9	19.7	18.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.4	11.6	10.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	6.1	6.4



OIL ANALYSIS REPORT

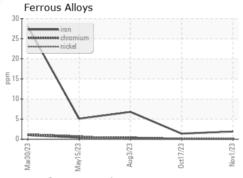


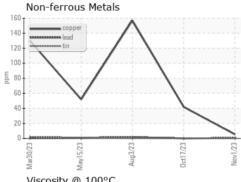
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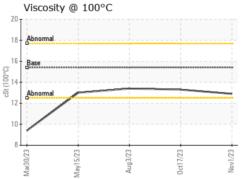
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

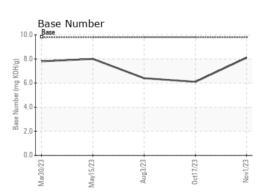
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	13.3	13.4

GRAPHS













Laboratory Sample No. Lab Number

Unique Number Test Package : FLEET

: GFL0094109 : 06000367 : 10728727

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Nov 2023 Diagnosed : 08 Nov 2023 Diagnostician : Don Baldridge

GFL Environmental - 983 - Sugar Land Hauling 16011 West Belfort Street

Sugar Land, TX US 77498 Contact: Gino Griego ggriego@gflenv.com T: (720)999-0726

Certificate L2367

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)