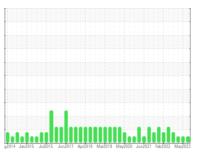


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 2402 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (6 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

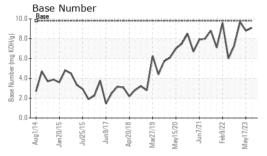
Fluid Condition

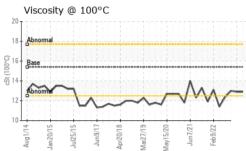
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

IAL)		g2014 Jan2015	Jul2015 Jun2017 Apr20	18 Mar2019 May2020 Jun2021 Feb2	022 May2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0068125	GFL0068147	GFL0046502
Sample Date		Client Info		02 Nov 2023	17 May 2023	13 Dec 2022
Machine Age	hrs	Client Info		3900	7158	535420
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
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	>100	5	7	6
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	2	<1	1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		3	3	2
Lead	ppm	ASTM D5185m	>40	<1	0	4
Copper	ppm	ASTM D5185m	>330	2	1	8
Tin	ppm	ASTM D5185m	>15	0	1	<1
Vanadium	ppm	ASTM D5185m	7.0	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	15	12
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	59	57
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	917	917	869
Calcium	ppm	ASTM D5185m	1070	1060	1104	1103
Phosphorus	ppm	ASTM D5185m	1150	1012	1045	960
Zinc	ppm	ASTM D5185m	1270	1209	1273	1177
Sulfur	ppm	ASTM D5185m	2060	3108	3914	3364
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m		4	7	5
Potassium	ppm	ASTM D5185m	>20	0	5	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	1.2	1
Nitration	Abs/cm	*ASTM D7624	>20	6.0	7.3	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	18.8	20.1
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	13.1	14.4
Base Number (BN)	mg KOH/g		9.8	9.1	8.8	9.7
Dase Mulliber (DIV)	my Normy	HOTIVI DZ030	5.0	9.1	0.0	3.7



OIL ANALYSIS REPORT

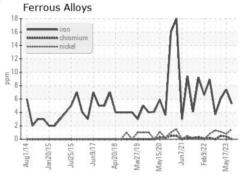


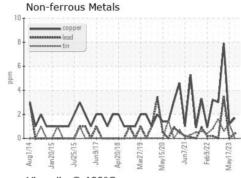


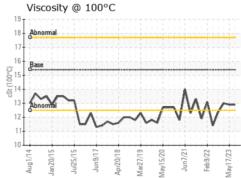
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

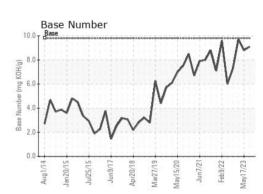
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	12.9	13.0	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10737114 Test Package : FLEET

: GFL0068125 : 06003352

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed Diagnostician

: 09 Nov 2023 : 10 Nov 2023 : Wes Davis

GFL Environmental - 028 - Weldon

2211 US Highway 301 Halifax, NC US 27839

Contact: TRAVIS PORCH

tporch@gflenv.com T: (252)532-3344

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)