

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 3697 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 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.

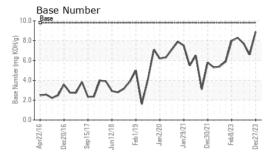
Fluid Condition

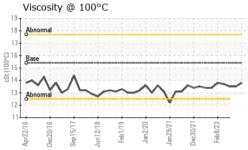
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

2016 Dec2016 Sep2017 Jun2018 Feb2019 Jun2020 Jun2021 Dec2021 Feb2023 Dec20						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0077765	GFL0065060	GFL0077818
Sample Date		Client Info		27 Dec 2023	25 Sep 2023	17 Jul 2023
Machine Age	mls	Client Info		306300	298567	289515
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	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	>120	5	8	13
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	3
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	4	7
Lead	ppm	ASTM D5185m	>40	<1	<1	4
Copper	ppm	ASTM D5185m	>330	4	3	2
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	25	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	41	65
Manganese	ppm	ASTM D5185m	0	0	1	<1
Magnesium	ppm	ASTM D5185m	1010	1018	535	1036
Calcium	ppm	ASTM D5185m	1070	1118	1718	1178
Phosphorus	ppm	ASTM D5185m	1150	1047	950	1004
Zinc	ppm	ASTM D5185m	1270	1307	1152	1330
Sulfur	ppm	ASTM D5185m	2060	3169	2877	3229
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	8
Sodium	ppm	ASTM D5185m		7	4	6
Potassium	ppm	ASTM D5185m	>20	38	3	15
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	5.4	8.4	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	20.6	21.1
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	18.4	18.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.9	6.6	7.7



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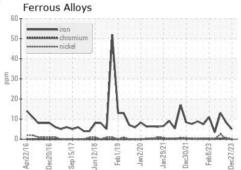


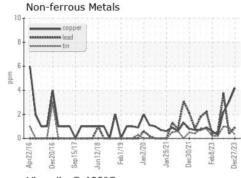


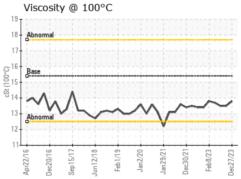
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

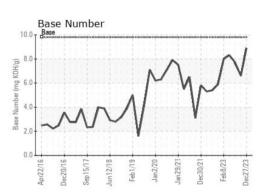
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.5	13.5

GRAPHS













Certificate L2367

Test Package : FLEET

Laboratory Sample No. Lab Number Unique Number : 10810094

: GFL0077765 : 06049486

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 02 Jan 2024 Diagnosed

Diagnostician : Wes Davis

: 04 Jan 2024

GFL Environmental - 650 - West Point Hauling

7825 Parham Landing Road West Point, VA US 23181

Contact: Jason Smith

jasonsmith@gflenv.com

T: F:

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)