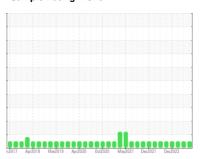


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **2628** Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (46 QTS)

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

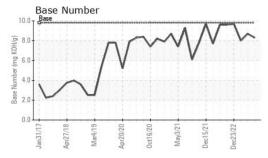
Fluid Condition

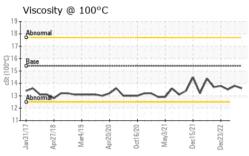
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

n2017 Apr2018 Mar2019 Apr2020 0x2020 May2021 0xx2022 0xx2022						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091183	GFL0076966	GFL0064948
Sample Date		Client Info		23 Aug 2023	21 Jul 2023	06 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
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
ron	ppm	ASTM D5185m	>165	15	10	10
Chromium	ppm	ASTM D5185m	>5	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	2	2
_ead	ppm	ASTM D5185m	>150	<1	0	<1
Copper	ppm	ASTM D5185m	>90	2	1	4
Fin	ppm	ASTM D5185m	>5	<1	<1	0
/anadium	ppm	ASTM D5185m	75	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	рріп	method	limit/base			
				current	history1	history2
Boron	ppm	ASTM D5185m	0	4	6	4
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	66	66	55
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1045	1036	822
Calcium	ppm	ASTM D5185m	1070	1231	1242	1041
Phosphorus	ppm	ASTM D5185m	1150	1153	1148	900
Zinc	ppm	ASTM D5185m	1270	1398	1395	1063
Sulfur	ppm	ASTM D5185m	2060	3962	4067	2623
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	4	4	4
Sodium	ppm	ASTM D5185m		4	3	7
Potassium	ppm	ASTM D5185m	>20	2	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.3	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.6	7.4	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	18.9	20.2
FLUID DEGRA	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	15.1	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	8.7	8.0



OIL ANALYSIS REPORT

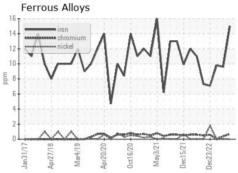


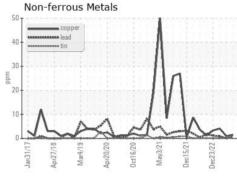


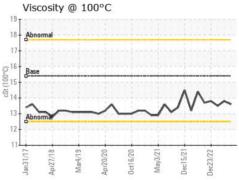
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

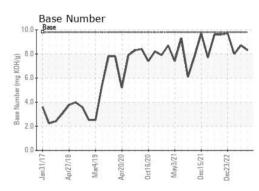
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.8	13.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10619991 Test Package : FLEET

: GFL0091183 : 05934720

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Aug 2023 Diagnosed

: 25 Aug 2023 Diagnostician : Wes Davis

GFL Environmental - 020 - Alamance

703 East Gilbreath St Graham, NC US 27253

F: (336)229-0526

Contact:

richard.belcher@gflenv.com T: (800)207-6618

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: GFL020 [WUSCAR] 05934720 (Generated: 08/25/2023 18:28:26) Rev: 1