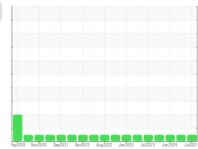


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 729010-5045

Diesel Engine

PETRO CANADA DURON SHP 15W40 (20 QTS)

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

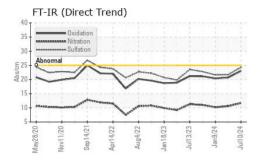
Fluid Condition

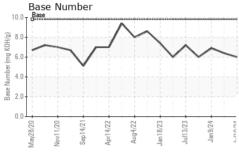
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

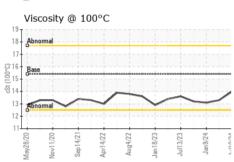
QTS)		fay2020 Nov2	020 Sep2021 Apr2022	Aug 2022 Jan 2023 Jul 2023 Jan 2	024 Jul2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0126718	GFL0096501	GFL0090905
Sample Date		Client Info		10 Jul 2024	01 Apr 2024	09 Jan 2024
Machine Age	hrs	Client Info		11780	11063	10490
Oil Age	hrs	Client Info		717	573	608
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
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	>110	36	18	21
Chromium	ppm	ASTM D5185m	>4	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	3	3
Lead	ppm	ASTM D5185m	>45	0	0	0
Copper	ppm	ASTM D5185m	>85	2	0	2
Tin	ppm	ASTM D5185m	>4	0	<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	1	5	16
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	58	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	983	908	916
Calcium	ppm	ASTM D5185m	1070	1212	1082	1168
Phosphorus	ppm	ASTM D5185m	1150	1029	987	1038 1268
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1270 2060	1262 3509	1231 3420	2955
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	13	6	8
Sodium	ppm	ASTM D5185m		11	8	8
Potassium	ppm	ASTM D5185m	>20	7	5	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.8	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	11.7	10.6	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	21.7	21.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.0	20.7	20.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.0	6.4	6.9



OIL ANALYSIS REPORT



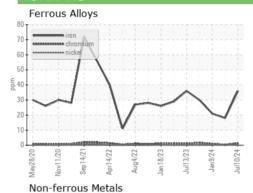


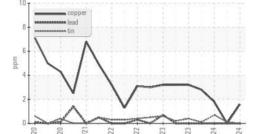


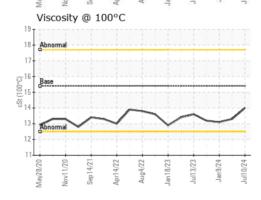
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

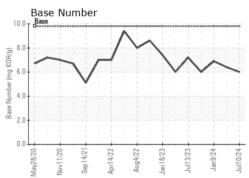
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.3	13.1

GRAPHS













Certificate 12367

Laboratory Sample No. Unique Number : 11126276

Lab Number : 06237442

: GFL0126718

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024 **Tested** : 16 Jul 2024

Diagnosed : 16 Jul 2024 - Wes Davis

GFL Environmental - 656 - Culpeper Hauling

15490 Montanus Drive Culpeper, VA US 22701

Contact: Matt Hanna mhanna@gflenv.com

T: (540)727-0887

Test Package : FLEET 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)