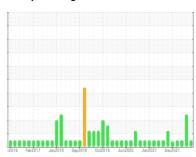


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 10460 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (7 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

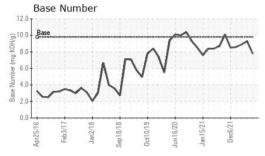
Fluid Condition

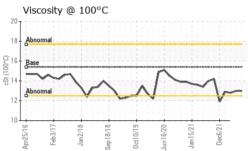
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		r2016 Feb20	17 Jan2018 Sep2018	Oct2019 Jun2020 Jan2021	Dec2021	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0083189	GFL0057601	GFL0057589
Sample Date		Client Info		27 Jun 2023	16 Mar 2023	10 Sep 2022
Machine Age	hrs	Client Info		8142	30820	30820
Oil Age	hrs	Client Info		578	5732	30820
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>75	17	14	9
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>15	4	1	2
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	1	0	8
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	20	43	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	67	74	54
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	825	610	687
Calcium	ppm	ASTM D5185m	1070	1112	1438	935
Phosphorus	ppm	ASTM D5185m	1150	950	773	859
Zinc	ppm	ASTM D5185m	1270	1200	972	1065
Sulfur	ppm	ASTM D5185m	2060	3497	2815	2652
CONTAMINAN [®]	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	10	8	4
Sodium	ppm	ASTM D5185m		11	<u>▲</u> 57	2
Potassium	ppm	ASTM D5185m	>20	13	▲ 47	1
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>6	0.9	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	8.6	8.4	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	20.8	18.6
FLUID DEGRAD	ATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	17.8	12.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	9.3	8.9
()	0 - 3					



OIL ANALYSIS REPORT

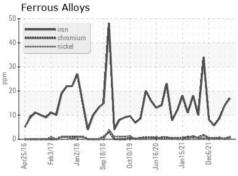


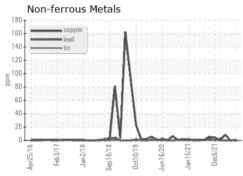


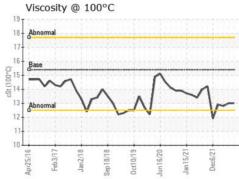
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

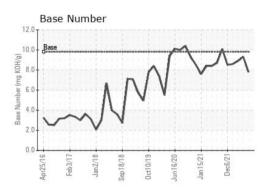
FLUID PROPE	ERTIES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	13.0	12.8

GRAPHS













Certificate L2367

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

: GFL0083189 : 05886461 : 10536944

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 29 Jun 2023 Diagnosed : 02 Jul 2023

Diagnostician : Wes Davis

Fairburn, GA US 30213 Contact: Eric Jones erjones@gflenv.com T: (678)630-9927

6905 Roosevelt Hwy

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)

GFL Environmental - 009 - Fairburn