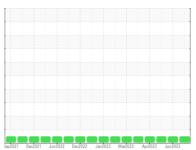


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



741000-310089

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: OIL SAMPLE)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

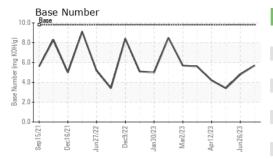
Fluid Condition

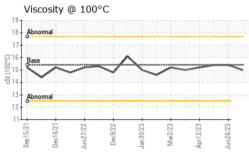
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL) Sup2021 Duc2022 Junc2022 Junc2022 Junc2023 Junc2023 Apr2023 Junc2023						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092087	GFL0084598	GFL0078126
Sample Date		Client Info		02 Dec 2023	26 Jun 2023	04 May 2023
Machine Age	mls	Client Info		88210	0	88210
Oil Age	mls	Client Info		4796	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
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	18	25	17
Chromium	ppm	ASTM D5185m	>4	1	2	2
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	1	2
Lead	ppm	ASTM D5185m	>45	0	10	4
Copper	ppm	ASTM D5185m	>85	<1	2	2
Tin Vanadium	ppm	ASTM D5185m	>4	0	2	<1 0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ppm		limit/base			_
		method		current	history1	history2
Boron Barium	ppm	ASTM D5185m ASTM D5185m	0	13 3	10 0	12 0
Molybdenum	ppm	ASTM D5185m	60	52	69	60
Manganese	ppm	ASTM D5185m	0	0	1	1
Magnesium	ppm	ASTM D5185m	1010	539	702	687
Calcium	ppm	ASTM D5185m	1070	1527	1976	1866
Phosphorus	ppm	ASTM D5185m	1150	660	935	834
Zinc	ppm	ASTM D5185m	1270	919	1201	1133
Sulfur	ppm	ASTM D5185m	2060	2438	3038	3056
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	14	7	6
Sodium	ppm	ASTM D5185m		11	30	7
Potassium	ppm	ASTM D5185m	>20	5	9	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	10.5	13.0	11.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	29.2	24.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	24.4	21.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.7	4.8	3.4



OIL ANALYSIS REPORT

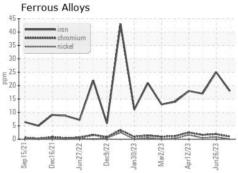


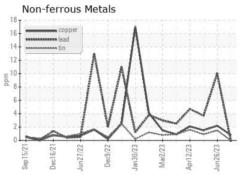


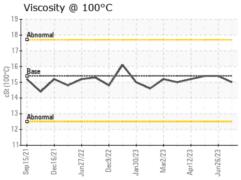
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

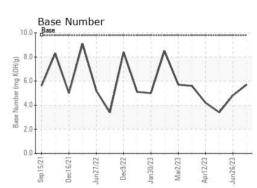
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	15.0	15.4	15.4	

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package : FLEET

: GFL0092087 : 06025612 : 10770112

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

: 05 Dec 2023 : 07 Dec 2023 GFL Environmental - 856 - Houston South

8515 Highway 6 South Houston, TX US 77083

Contact: Apolinar Zacarias pzacariascano@gflenv.com T:

* - 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)

F: