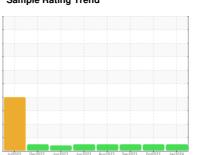


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id

819019 Component **Diesel Engine**

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

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

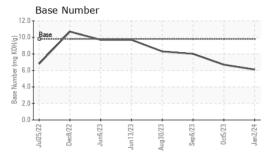
Fluid Condition

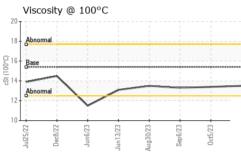
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		0012022	Dec2022 Jun2023 Jun20			
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100875	GFL0086862	GFL0086865
Sample Date		Client Info		02 Jan 2024	05 Oct 2023	06 Sep 2023
Machine Age	hrs	Client Info		55703	55703	16091
Oil Age	hrs	Client Info		600	55703	16091
Oil Changed		Client Info		Changed	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	>80	57	41	31
Chromium	ppm	ASTM D5185m	>5	3	2	1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>30	7	0	<1
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>150	5	4	3
Tin	ppm	ASTM D5185m	>5	<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	6	5	6
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	60	61	60
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	861	832	924
Calcium	ppm	ASTM D5185m	1070	1281	1240	1388
Phosphorus	ppm	ASTM D5185m	1150	957	962	993
Zinc	ppm	ASTM D5185m	1270	1232	1211	1246
Sulfur	ppm	ASTM D5185m	2060	2490	2820	3375
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	10	9	9
Sodium	ppm	ASTM D5185m		10	5	7
Potassium	ppm	ASTM D5185m	>20	11	11	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	0.8	0.7
Nitration	Abs/cm	*ASTM D7624	>20	12.8	10.9	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4	22.1	20.7
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.8	20.3	18.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.1	6.7	8.0
()	0 - 3					



OIL ANALYSIS REPORT

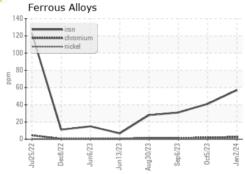


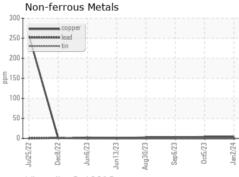


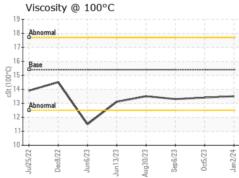
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

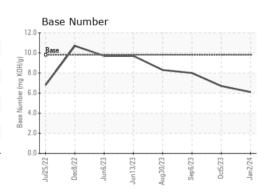
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.4	13.3

GRAPHS













Certificate L2367

Report Id: GFL419 [WUSCAR] 06051343 (Generated: 01/08/2024 14:45:18) Rev: 1

Laboratory Sample No. Lab Number

Unique Number Test Package : FLEET

: 06051343

: GFL0100875 : 10817292

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 04 Jan 2024 : 05 Jan 2024 Diagnosed Diagnostician : Don Baldridge

6950 N Michigan Saginaw, MI US 48604 Contact: Jeremy Hines jhines@gflenv.com T: (800)684-1277

GFL Environmental - 419 - Metro Saginaw

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)