

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 912036 Component Diesel Engine Fluid

PETRO CANADA DURON SHP 15W40 (--- 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

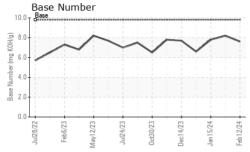
Fluid Condition

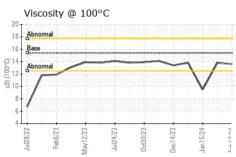
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOF	<u>AOIT</u> AMS	method				history2
Sample Number		Client Info		GFL0111086	GFL0103522	GFL0103517
Sample Date		Client Info		12 Feb 2024	25 Jan 2024	15 Jan 2024
Machine Age	hrs	Client Info		5766	5651	5588
Oil Age	hrs	Client Info		178	63	1067
Oil Changed	1110	Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.2	10.4
Water		WC Method	>0.0	NEG	NEG	NEG
Glycol		WC Method	70. L	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
		ASTM D5185m	>120	2	<1	32
Iron Chromium	ppm			0	0	<1
Nickel	ppm		>20		<1	1
	ppm	ASTM D5185m	>5	<1 0		
Titanium Silver	ppm	ASTM D5185m	>2		0	<1 0
Aluminum	ppm	ASTM D5185m	>20	0 2	2	∆ 11
	ppm	ASTM D5185m ASTM D5185m				2
Lead	ppm		>40	1 2	<1	
Copper	ppm	ASTM D5185m		_	<1	14
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m	12	0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	15	19	22
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m	60	79	78	85
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	864	887	831
Calcium	ppm	ASTM D5185m		995	1013	944
Phosphorus	ppm	ASTM D5185m	1150	935	989	847
Zinc	ppm	ASTM D5185m	1270	1169	1205	1102
Sulfur	ppm	ASTM D5185m	2060	2839	3005	2772
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	8
Sodium	ppm	ASTM D5185m		3	2	0
Potassium	ppm	ASTM D5185m	>20	8	7	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.2	0.4
Nitration	Abs/cm	*ASTM D7624		7.2	5.6	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	18.1	18.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	13.6	12.8
Base Number (BN)	mg KOH/g	ASTM D2896	0.8	7.6	8.2	7.8



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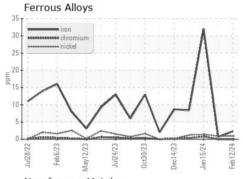


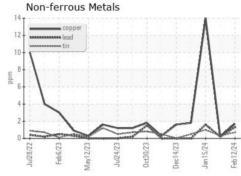


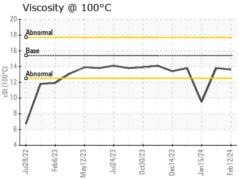
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

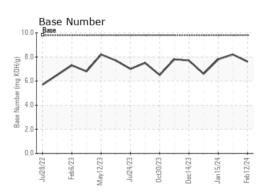
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.8	9.5	

GRAPHS











Certificate L2367

Laboratory Sample No.

Lab Number : 06091476 Unique Number: 10884329 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0111086 Received

: 16 Feb 2024 **Tested** : 16 Feb 2024 Diagnosed : 16 Feb 2024 - Wes Davis

GFL environmental - 867 - Trafford (Blount Hauling)

1130 County Line Rd Trafford, AL US 35172

Contact: Jonathan Williams jonathan.williams@gflenv.com

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)

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