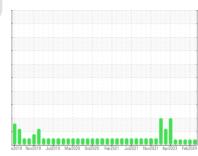


OIL ANALYSIS REPORT

(EMN589) **AUTOCAR 10861**

Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (7 GAL)



Sample Rating Trend



DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

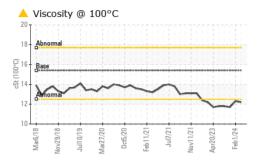
▲ Fluid Condition

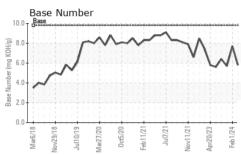
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

CAMPLE INFOR	MATION	mothed	limit/boos	Ol wront.	historyt	hiotomy
SAMPLE INFORI	WATION		limit/base	current	history1	history2
Sample Number		Client Info		GFL0109053	GFL0109086	GFL0086186
Sample Date		Client Info		21 Feb 2024	01 Feb 2024	14 Dec 2023
Machine Age	hrs	Client Info		14123	14111	14111
Oil Age	hrs	Client Info		0	13959	14111
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>75	12	10	27
Chromium	ppm	ASTM D5185m		. <u>-</u> <1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m		3	4	3
Lead		ASTM D5185m	>25	0	<1	0
Copper	ppm		>100	8	8	17
Tin	ppm	ASTM D5185m	>100	<1	<1	<1
Vanadium	ppm	ASTM D5185m	>4	0	0	0
Cadmium	ppm			0		0
	ppm	ASTM D5185m			0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	13	13	11
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	60	58
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	732	767	727
Calcium	ppm	ASTM D5185m	1070	1023	1038	1050
Phosphorus	ppm	ASTM D5185m	1150	917	939	773
Zinc	ppm	ASTM D5185m	1270	1069	1102	1069
Sulfur	ppm	ASTM D5185m	2060	2644	2804	2443
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	7	4
Sodium	ppm	ASTM D5185m		4	3	4
Potassium	ppm	ASTM D5185m	>20	4	6	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.5	0.4	1
Nitration	Abs/cm	*ASTM D7624	>20	7.7	6.8	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	18.2	21.6
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	12.9	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.8	7.7	5.7
_ = = = = (= 1 (= 1 ()	9		5.0	0.0		0



OIL ANALYSIS REPORT

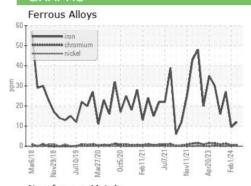


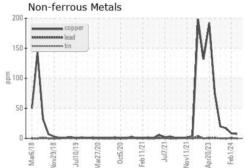


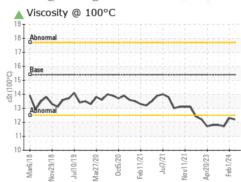
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

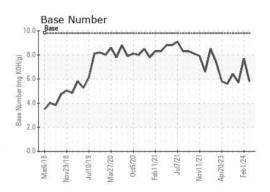
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	12.2	12.3	11.7	

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06098143 Unique Number: 10896373 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0109053 Received : 23 Feb 2024 **Tested** : 25 Feb 2024

Diagnosed : 26 Feb 2024 - Don Baldridge

GFL Environmental - 009 - Fairburn

6905 Roosevelt Hwy Fairburn, GA US 30213

Contact: Eric Jones erjones@gflenv.com T: (678)630-9927

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)