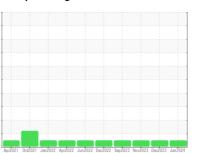


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
7837M
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

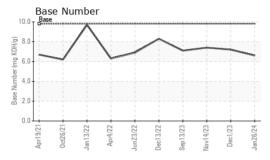
Fluid Condition

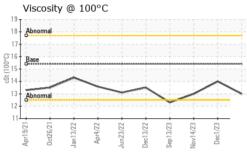
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION			022 Dec2022 Sep2023 Nov2023 Dec2		history ()	
	VIATION		limit/base	current	history1	history2	
Sample Number		Client Info		GFL0107703	GFL0096587	GFL0096573	
Sample Date		Client Info		26 Jan 2024	01 Dec 2023	14 Nov 2023	
Machine Age	hrs	Client Info		15144	14715	14582	
Oil Age	hrs	Client Info		600	600	600	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
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	>120	10	28	6	
Chromium	ppm	ASTM D5185m	>20	<1	3	<1	
Nickel	ppm	ASTM D5185m	>5	<1	0	<1	
Titanium	ppm	ASTM D5185m	>2	<1	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	1	2	4	
Lead	ppm	ASTM D5185m	>40	2	1	1	
Copper	ppm	ASTM D5185m	>330	<1	2	<1	
Tin	ppm	ASTM D5185m	>15	<1	2	<1	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	19	<1	
Barium	ppm	ASTM D5185m	0	0	2	9	
Molybdenum	ppm	ASTM D5185m	60	60	53	33	
Manganese	ppm	ASTM D5185m	0	<1	2	<1	
Magnesium	ppm	ASTM D5185m	1010	886	829	491	
Calcium	ppm	ASTM D5185m	1070	1009	1175	859	
Phosphorus	ppm	ASTM D5185m	1150	967	816	450	
Zinc	ppm	ASTM D5185m	1270	1124	973	887	
Sulfur	ppm	ASTM D5185m	2060	2516	2360	1460	
CONTAMINANTS method limit/base current history1 history2							
Silicon	ppm	ASTM D5185m	>25	4	14	3	
Sodium	ppm	ASTM D5185m		4	24	8	
Potassium	ppm	ASTM D5185m	>20	0	3	4	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.4	0.5	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	8.3	9.4	7.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.7	19.8	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/1mm	*ASTM D7414	>25	16.0	16.5	16.1	
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	16.0 6.6	16.5 7.2	16.1 7.4	



OIL ANALYSIS REPORT

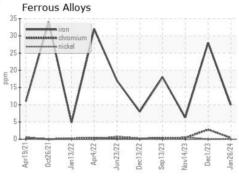


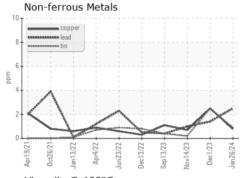


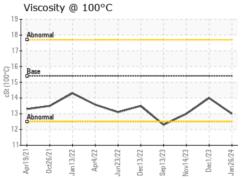
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

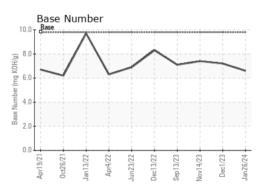
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	14.0	13.0	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10859515 Test Package : FLEET

: 06077424

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0107703 Recieved : 01 Feb 2024

: 02 Feb 2024 Diagnosed Diagnostician : Wes Davis

GFL Environmental - 465 - Pontiac

888 Baldwin Pontiac, MI US 48340

Contact: Ricky Matthews rickymathews@gflenv.com T: (586)825-9514

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)