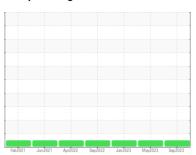


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 166M 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

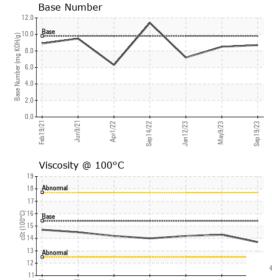
Fluid Condition

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

14 3111 13 14 40 (- GAL)	Feb2021	Jun2021 Apr2022	Sep2022 Jan2023 May2023	Sep2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0027496	GFL0081272	GFL0063312
Sample Date		Client Info		19 Sep 2023	09 May 2023	12 Jan 2023
Machine Age	hrs	Client Info		12704	19531	18930
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Not Changd	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
Glycol		WC Method	7 0.0	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>200	28	18	14
Chromium	ppm	ASTM D5185m		2	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		1	<1	3
_ead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m		<1	3	3
Γin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	5	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	57	61	56
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	916	959	880
Calcium	ppm	ASTM D5185m	1070	1081	1099	1006
Phosphorus	ppm	ASTM D5185m	1150	944	989	892
Zinc	ppm	ASTM D5185m	1270	1165	1256	1102
Sulfur	ppm	ASTM D5185m	2060	3191	3299	2985
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	14	4	3
Sodium	ppm	ASTM D5185m		4	43	0
Potassium	ppm	ASTM D5185m	>20	0	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	7.2	7.9	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	19.5	20.0
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	15.1	16.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	8.5	7.2
. ,	0					



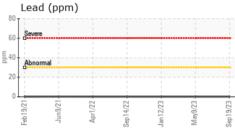
OIL ANALYSIS REPORT

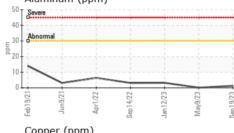


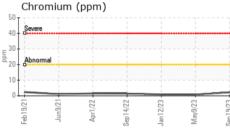
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

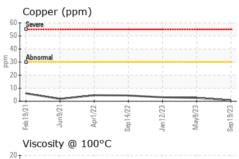
T LOID I NOT LIT						
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	14.3	14.2

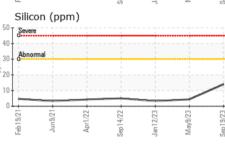
Iron	(ppm)					
Severe						
Abnor	mal		 	 	-	
			1	 	-	
00						
Feb19/21	Jun9/21	4pr1/22 +	14/22	Jan 12/23 -	May9/23 -	9/23
윤	η	Ap	Sep	Jan	Ma	Sep1
Alun	ninum	(ppm)				

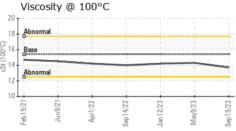


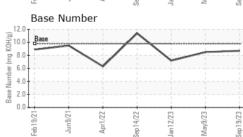














Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : MOB1+

: 10659549

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0027496 : 05958336

Received Diagnosed Diagnostician : Wes Davis

: 22 Sep 2023 : 22 Sep 2023 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)