

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Note that there appears to be a discrepancy in the total time on this component, when compared to the historical data.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ATTENTION	ABNORMAL
Silicon	ppm	ASTM D5185m	>25	<u> </u>	52	6 3
Visc @ 100°C	cSt	ASTM D445	15.4	10.7	1 0.7	1 0.4

Customer Id: GFL415 Sample No.: GFL0101597 Lab Number: 06013635 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			
Alert			?	Note that there appears to be a discrepancy in the total time on this component, when compared to the historical data.			

HISTORICAL DIAGNOSIS





15 Nov 2023 Diag: Sean Felton

Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



09 Nov 2023 Diag: Don Baldridge



No corrective action is recommended at this time. Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.





OIL ANALYSIS REPORT

Sample Rating Trend



914058 Component **Diesel Engine**

Machine Id

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

PH ON OCO			NO	V2023	Nov2023 Nov20		
DIAGNOSIS	SAMPLE INFOR		method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0101597	GFL0101521	GFL0101559
Oil and filter change at the time of sampling has	Sample Date		Client Info		17 Nov 2023	15 Nov 2023	09 Nov 2023
been noted. No corrective action is recommended at this time. Resample at the next service interval to	Machine Age	hrs	Client Info		10107	593	548
monitor. Note that there appears to be a	Oil Age	hrs	Client Info		548	548	0
discrepancy in the total time on this component,	Oil Changed		Client Info		Changed	N/A	N/A
when compared to the historical data.	Sample Status				ABNORMAL	ATTENTION	ABNORMAL
Near	CONTAMINA	TION	method	limit/base	current	history1	history2
Aetal levels are typical for a new component preaking in.	Fuel		WC Method	>3.0	<1.0	<1.0	0.5
	Water		WC Method	>0.2	NEG	NEG	NEG
Contamination Elemental level of silicon (Si) above normal	Glycol		WC Method		NEG	NEG	NEG
ndicating ingress of seal material.	WEAR META	LS	method	limit/base	current	history1	history2
Fluid Condition	Iron	ppm	ASTM D5185m	>120	42	37	41
he oil viscosity is lower than normal. The BN result	Chromium	ppm	ASTM D5185m	>20	1	1	<1
ndicates that there is suitable alkalinity remaining in he oil. Confirm oil type.	Nickel	ppm	ASTM D5185m		4	3	4
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		<1	<1	1
	Aluminum	ppm	ASTM D5185m		5	5	4
	Lead	ppm	ASTM D5185m		- <1	2	<1
	Copper	ppm	ASTM D5185m		318	266	305
	Tin	ppm	ASTM D5185m		3	2	3
	Vanadium	ppm	ASTM D5185m	210	0	<1	<1
	Cadmium	ppm	ASTM D5185m		۲ ح1	0	<1
	ADDITIVES	I- I-	method	limit/base		history1	history2
	Boron	ppm	ASTM D5185m		192	154	198
	Barium	ppm	ASTM D5185m		10	0	<1
			ASTM D5185m		114	99	118
	Molybdenum	ppm	ASTM D5185m		4	4	4
	Manganese	ppm				4 699	714
	Magnesium	ppm	ASTM D5185m		719		
	Calcium	ppm	ASTM D5185m		1333	1291	1419
	Phosphorus	ppm	ASTM D5185m		722	680	726
	Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m		868 2374	854 1951	844 2218
	CONTAMINA			limit/base		history1	history2
	Silicon	ppm	ASTM D5185m	>20	<u> </u>	52	▲ 63
	Sodium	ppm	ASTM D5185m	> 20	<1 8	4	0
	Potassium	ppm	ASTM D5185m			5	8
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844		0.6	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.8	9.4	9.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	23.6	24.2
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.9	21.3	22.1
	D	1/01/1		0.0		0.0	0.0

Base Number (BN) mg KOH/g ASTM D2896 9.8

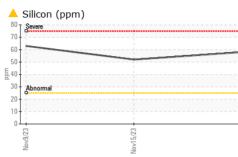
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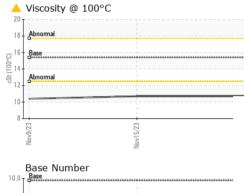
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7.8



OIL ANALYSIS REPORT









* - 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)

Certificate L2367

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