

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.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	NORMAL	ABNORMAL	
Nickel	ppm	ASTM D5185m	>5	<u> </u>	2	<u> </u>	

Customer Id: GFL401 Sample No.: GFL0096880 Lab Number: 06035859 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 customerservice@wearcheck.com

RECOMMENDE	ED 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.

HISTORICAL DIAGNOSIS



28 Jul 2023 Diag: Wes Davis

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



13 Jun 2023 Diag: Jonathan Hester



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.Valve wear is indicated. 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





Machine Id 913121 Component

Fluid

Diesel Engine PETRO CANADA DURC

DIAGNOSIS 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.

🔺 Wear

Valve wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

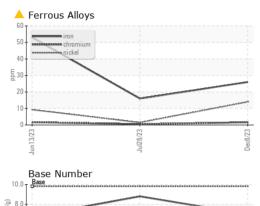
Fluid Condition

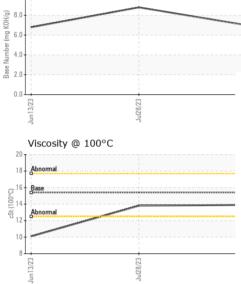
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

N SHP 15W40 (2	8 GAL)		2023	Jul2023 Dec20	23	
SAMPLE INFOR			limit/base		history1	history2
Sample Number Sample Date Machine Age Dil Age Dil Changed	hrs hrs	Client Info Client Info Client Info Client Info Client Info		GFL0096880 08 Dec 2023 0 600 Changed	GFL0084000 28 Jul 2023 0 600 Changed	GFL0084016 13 Jun 2023 0 600 Changed
Sample Status		method	limit/base	ABNORMAL	NORMAL history1	ABNORMAL
Fuel Water Glycol		WC Method WC Method WC Method	>3.0 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	0.4 NEG NEG
WEAR METAL		method	limit/base		history1	history2
ron Chromium Nickel Fitanium Silver Aluminum Lead Copper Fin Vanadium Cadmium Cadmium Boron Barium Molybdenum Manganese	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>2 >20 >40 >330 >15 limit/base 0 0 0 60	26 2 2 14 <1 2 0 4 1 0 <1 0 <1 2 12 62 2	16 <1 2 0 1 <1 0 2 <1 0 2 <1 0 0 0 history1 15 0 70 1	53 2 9 <1 1 6 1 17 4 <1 0 history2 211 0 120 7
Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		956 1077 979 1227 2947	1083 1226 1150 1420 4161	733 1537 752 953 2996
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		5 0 3	10 0 0	▲ 9048
INFRA-RED		method	limit/base	current	history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>20	0.8 9.3 20.0	0.5 7.1 19.3	0.7 10.2 25.4
FLUID DEGRAI		method	limit/base	current	history1	history2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.8	15.7 7.0	14.6 8.8	24.4 6.8



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
	and the second distance of the second distanc	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
States and a state of the local division of	No. of Concession, Name	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
/23	/23	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Jul28/23	Dec8/23	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
		Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
		Free Water	scalar	*Visual	20.L	NEG	NEG	NEG
						NEG		
		FLUID PROPE	ERTIES	method	limit/base	current	history1	history2
		Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.8	▲ 10.1
		GRAPHS						
		Ferrous Alloys 60 T						
23		iron						
Jul28/23		50 - chromium						
		40						
		<u>ة</u> 30						
		20	-					
		10-		- WARDON D. PARTICULAR STATE				
		0	States of the local division of the local di	and the second s				
		Jun 13/23	Jul28/23		Dec8/23			
		Junl	Jul2		Dec			
		Non-ferrous Meta	ls					
Jul28/23		18 conner i						
Jul		16 - copper lead						
		14 tin						
		6						
		4-						
		2						
		3	23		23			
		Jun13/23	Jul28/23		Dec8/23			
		Viscosity @ 100°						
			<u> </u>					
		19 ₁			10 (Base Number		
		19 18 Abnormal			10.0	Base Number		
		19 18 Abnormal 17				Base		
		19 18 Abnormal 17 16 Base				Base		
		19 18 Abnormal 17 16 Base				Base		
		19 18 Abnormal 17 16 Base 0 15				Base		
		19 18 Abnormal 17 16 Base 515 614 4bnormal 12	_		.6. (D)HOJ Bull asse Nrimper (J.1	Base		
		19 18 Abnormal 17 16 Base 515 6 14 Abnormal 12 11 Abnormal	/).8).8).8 per (mg KOH/g)	Base		
		19 18 Abnormal 17 16 Base 515 614 4bnormal 12			6.0 (0)HOX bull as with a set of the set of	D = Base		
		19 Abnormal 17 16 Base 17 16 Base 17 16 Abnormal 17 14 Abnormal 12 11 10 10 9 11	8/23		6.0 (0)HOX bull as with a set of the set of	Base	823	883
		19 18 Abnormal 17 16 Base 515 6 14 Abnormal 12 11 Abnormal	Jui28/23		(0)HO 8.((0)HO 8.(uu 00)HO 8.	D = Base	Jui28/23	Dee0/3
THE LABORATORY	Laboratory Sample No. Lab Number Unique Number Test Package	¹⁹ ¹⁸ ¹⁰		l :15 ed :19	0.6 8.0 (0) KOH(0) (bu) bu) bu Bases (numper Bases (numper	Base EZ/ET Lung	onmental - 401 - 4429 ALL FC	Fort Wayne Haulin EN MARTIN DI DRT WAYNE, II US 4680 Stephanie Burto
	Laboratory Sample No. Lab Number Unique Number Test Package	¹⁹ ¹⁸ ¹⁰	501 Madis Recieved Diagnose Diagnost	l : 15 ed : 19 ician : Dor	ry, NC 27513 Dec 2023 baldridge	Base EZ/ET Lung	onmental - 401 - 4429 ALL F(Contact: S	Fort Wayne Haulin EN MARTIN DI DRT WAYNE, II US 4680