

Dec14/23





RECOMMENDATION

50.0

40.0

⊒ ⊒ 30.0

20.0

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE	ABNORMAL			
Fuel	%	ASTM D3524	>3.0	e 29.4	49.2	4 .7			
Visc @ 100°C	cSt	ASTM D445	15.4	6.7	4.8	1 1.1			

Customer Id: GFL009 Sample No.: GFL0109088 Lab Number: 06081864 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.			
Resample			?	We recommend an early resample to monitor this condition.			
Check Fuel/injector System			?	We advise that you check the fuel injection system.			

HISTORICAL DIAGNOSIS



14 Dec 2023 Diag: Wes Davis

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



30 Nov 2023 Diag: Wes Davis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



12 Sep 2023 Diag: Wes Davis



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Fuel content negligible. 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.





OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

X



(PJ3386) **MACK 2655** Component

Diesel Engine Fluid

PETRO CANAD

ON SHP 15W40 (7 GAL)	n2017 Nov2	017 Dec2018 Jul2019	Jun2020 Jun2021 Sep2022	Nov2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	histor
Sample Number		Client Info		GFL0109088	GFL0086185	GFL00861
Sample Date		Client Info		01 Feb 2024	14 Dec 2023	30 Nov 20
Machine Age	hrs	Client Info		31023	30863	30660
Oil Age	hrs	Client Info		0	30863	30783
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORM
CONTAMINAT	TION	method	limit/base	current	history1	histor
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	histor
Iron	ppm	ASTM D5185m	>120	3	12	14
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	<1	2
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	31	37	0
Tin	ppm	ASTM D5185m	>15	4	4	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	histor
Boron	ppm	ASTM D5185m	0	10	4	33
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	41	27	58
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	522	366	776
Calcium	ppm	ASTM D5185m	1070	730	552	1173
Phosphorus	ppm	ASTM D5185m	1150	663	432	1004
Zinc	ppm	ASTM D5185m	1270	771	558	1292
Sulfur	ppm	ASTM D5185m	2060	1953	1287	3404
CONTAMINAN	NTS	method	limit/base	current	history1	histor
Silicon	ppm	ASTM D5185m	>25	2	4	8
Sodium	ppm	ASTM D5185m		1	2	1
Potassium	ppm	ASTM D5185m	>20	3	1	4
Fuel	%	ASTM D3524	>3.0	e 29.4	49.2	4 .7
INFRA-RED		method	limit/base	current	history1	histor
Soot %	%	*ASTM D7844	>4	0.1	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.9	7.2	4.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.4	15.1	15.6
FLUID DEGRA	DATION	method	limit/base	current	history1	histor
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.2	10.2	10.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.4	5.3	7.8

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system We recommend that you drain the oil from the component if this has not already been done. V recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil Tests confirm the presence of fuel in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in oil and is lowering the viscosity. The oil is no lo serviceable due to the presence of contaminan



OIL ANALYSIS REPORT

