

COMPONENT CONDITION SUMMARY







RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ATTENTION		
Fuel	%	ASTM D3524	>5	<u> </u>	4 .9	<1.0		
Visc @ 100°C	cSt	ASTM D445	15.0	11.2	1 0.6	11.0		

Customer Id: CONLINNE Sample No.: SBP0004636 Lab Number: 05935945 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Resample			?	We recommend an early resample to monitor this condition.		

HISTORICAL DIAGNOSIS





The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Light fuel dilution occurring. 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 condition of the oil is suitable for further service.



23 Feb 2023 Diag: Don Baldridge

01 Jun 2023 Diag: Wes Davis



view report

VISCOSITY



30 Nov 2022 Diag: Don Baldridge

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Oil and filter change at the time of sampling has been noted. 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 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

FUEL

Area CONSTRUCTORS, INC Machine Id FORD DIESEL 03-0334 Component

Diesel Engine Fluid MOBIL DELVAC 1 5W40 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate 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 the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

		Aug2017	Feb2019 Jul2020	Apr2022 Feb2023	Aug2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0004636	SBP0004459	SBP0001295
Sample Date		Client Info		22 Aug 2023	01 Jun 2023	23 Feb 2023
Machine Age	hrs	Client Info		9422	9071	8684
Oil Age	hrs	Client Info		351	387	350
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	31	32	30
Chromium	ppm	ASTM D5185m	>20	2	1	2
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	7	9	6
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	2	2
Tin	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	method ASTM D5185m	limit/base	current 0	history1 2	history2 5
Boron Barium	ppm ppm	Method ASTM D5185m ASTM D5185m	limit/base 291 0.0	current 0 0	history1 2 0	history2 5 0
Boron Barium Molybdenum	ppm ppm ppm	Method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 291 0.0 8.0	Current 0 0 65	history1 2 0 55	history2 5 0 54
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 291 0.0 8.0	0 0 65 <1	history1 2 0 55 <1	history2 5 0 54 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 291 0.0 8.0 624	Current 0 0 65 <1 985	history1 2 0 55 <1 889	history2 5 0 54 <1 848
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 291 0.0 8.0 624 2158	Current 0 0 65 <1 985 1123	history1 2 0 55 <1 889 1119	history2 5 0 54 <1 848 1151
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 291 0.0 8.0 624 2158 1132	current 0 65 <1 985 1123 1080	history1 2 0 55 <1 889 1119 959	history2 5 0 54 <1 848 1151 940
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 291 0.0 8.0 624 2158 1132 1300	current 0 65 <1 985 1123 1080 1294	history1 2 0 55 <1 889 1119 959 1178	history2 5 0 54 <1 848 1151 940 1147
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 291 0.0 8.0 624 2158 1132 1300 3616	current 0 0 65 <1 985 1123 1080 1294 3608	history1 2 0 55 <1 889 1119 959 1178 3399	history2 5 0 54 <1 848 1151 940 1147 3317
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 291 0.0 8.0 624 2158 1132 1300 3616 limit/base	current 0 65 <1 985 1123 1080 1294 3608 current	history1 2 0 55 <1 889 1119 959 1178 3399 history1	history2 5 0 54 <1 848 1151 940 1147 3317 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	limit/base 291 0.0 8.0 624 2158 1132 1300 3616 limit/base >25	current 0 65 <1 985 1123 1080 1294 3608 current 8	history1 2 0 55 <1 889 1119 959 1178 3399 history1 9	history2 5 0 54 <1 848 1151 940 1147 3317 history2 8
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	limit/base 291 0.0 8.0 624 2158 1132 1300 3616 limit/base >25	current 0 65 <1 985 1123 1080 1294 3608 current 8 9	history1 2 0 55 <1 889 1119 959 1178 3399 history1 9 9 9 9 9 9 9	history2 5 0 54 <1 848 1151 940 1147 3317 history2 8 7
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base 291 0.0 8.0 624 2158 1132 1300 3616 limit/base >25 >20	current 0 65 <1 985 1123 1080 1294 3608 current 8 9 3	history1 2 0 55 <1 889 1119 959 1178 3399 history1 9 9 4	history2 5 0 54 <1 848 1151 940 1147 3317 history2 8 7 3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base 291 0.0 8.0 624 2158 1132 1300 3616 limit/base >25 >20 >5	current 0 65 <1 985 1123 1080 1294 3608 current 8 9 3 5.3	history1 2 0 55 <1 889 1119 959 1178 3399 history1 9 9 4 4.9	history2 5 0 54 <1 848 1151 940 1147 3317 history2 8 7 3 <1.0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base 291 0.0 8.0 624 2158 1132 1300 3616 limit/base >25 >20 >5 limit/base	current 0 65 <1 985 1123 1080 1294 3608 current 8 9 3 • 5.3	history1 2 0 55 <1 889 1119 959 1178 3399 history1 9 9 4 ▲ 4.9 history1	history2 5 0 54 <1 848 1151 940 1147 3317 history2 8 7 3 <1.0 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base 291 0.0 8.0 624 2158 1132 1300 3616 limit/base >25 >20 >5 limit/base >3	current 0 65 <1 985 1123 1080 1294 3608 current 8 9 3 5.3 current 0.7	history1 2 0 55 <1 889 1119 959 1178 3399 history1 9 9 4 ▲ 4.9 history1 0.8	history2 5 0 54 <1 848 1151 940 1147 3317 history2 8 7 3 <1.0 history2 0.6
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m	limit/base 291 0.0 8.0 624 2158 1132 1300 3616 limit/base >25 20 >5 limit/base >3 >20	current 0 65 <1 985 1123 1080 1294 3608 current 8 9 3 5.3 current 0.7 11.8	history1 2 0 55 <1 889 1119 959 1178 3399 history1 9 9 9 4 ▲ 4.9 history1 0.8 11.7	history2 5 0 54 <1 848 1151 940 1147 3317 history2 8 7 3 <1.0 history2 0.6 11.4
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D524 *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base 291 0.0 8.0 624 2158 1132 1300 3616 limit/base >25 20 >5 20 >5 limit/base >3 >20 >30	0 0 65 <1 985 1123 1080 1294 3608 current 8 9 3 • 5.3 current 0.7 11.8 21.3	history1 2 0 55 <11 889 1119 959 1178 3399 1178 3399 history1 9 9 4 ▲ 4.9 history1 0.8 11.7 21.7	history2 5 0 54 <1 848 1151 940 1147 3317 history2 8 7 3 <1.0 history2 0.6 11.4 20.0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7844	limit/base 291 0.0 8.0 624 2158 1132 1300 3616 limit/base >25 20 >5 20 20 >5 20 20 23 20 23 20 23 20 23	current 0 65 <1 985 1123 1080 1294 3608 current 8 9 3 5.3 current 0.7 11.8 21.3 current	history1 2 0 55 <1 889 1119 959 1178 3399 1178 3399 0 1178 9 9 9 4 ↓ 4.9 1 0.8 11.7 21.7 bistory1	history2 5 0 54 <1 848 1151 940 1147 3317 history2 8 7 3 <1.0 history2 0.6 11.4 20.0 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA Oxidation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D524 *ASTM D7844 *ASTM D7844 *ASTM D7415	limit/base 291 0.0 8.0 624 2158 1132 1300 3616 limit/base >25 limit/base >3 >20 >30 limit/base >33	current 0 65 <1 985 1123 1080 1294 3608 current 8 9 3 5.3 current 0.7 11.8 21.3 current	history1 2 0 55 <1 889 1119 959 1178 3399 1178 3399 0 1178 9 9 9 4 ▲ 4.9 1 0.8 11.7 21.7 21.7 21.0	history2 5 0 54 <1 848 1151 940 1147 3317 history2 8 7 3 <1.0 history2 0.6 11.4 20.0 history2 20.3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA Oxidation Base Number (BN)	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D78144 *ASTM D7624 *ASTM D7414 ASTM D7414	limit/base 291 0.0 8.0 624 2158 1132 1300 3616 limit/base >25 20 >5 20 >5 limit/base >3 >20 >30 limit/base >3 20 >30	current 0 65 <1 985 1123 1080 1294 3608 current 8 9 3 5.3 current 0.7 11.8 21.3 current 21.0 6.8	history1 2 0 55 <1 889 1119 959 1178 3399 history1 9 9 4 • history1 0.8 11.7 21.7 history1 21.0 7.2	history2 5 0 54 <1 848 1151 940 1147 3317 history2 8 7 3 <1.0 history2 0.6 11.4 20.0 history2 20.3 7.6



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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.0	11.2	▲ 10.6	▲ 11.0
GRAPHS						



* - 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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F: