

PROBLEM SUMMARY

Sample Rating Trend



Machine Id

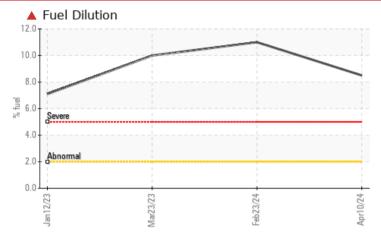
INTERNATIONAL FFB22

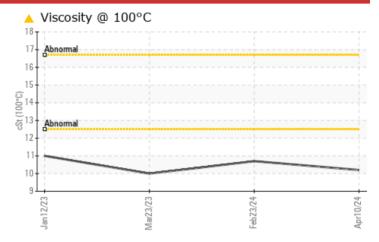
Diesel Engine

Fluid

{not provided} (18 QTS)

COMPONENT CONDITION SUMMARY





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. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE	SEVERE			
Fuel	%	ASTM D3524	>2.0	8.5	1 1.0	1 0.0			
Visc @ 100°C	cSt	ASTM D445		10.2	△ 10.7	10.0			

Customer Id: IDECLE Sample No.: IL0036558 Lab Number: 06158292 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		
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.		
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		

HISTORICAL DIAGNOSIS

23 Feb 2024 Diag: Wes Davis

FUEL



We advise that you check the tuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. Metal levels are typical for a new component breaking in. 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.



UEL



23 Mar 2023 Diag: Doug Bogart

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. 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. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



FUEL



12 Jan 2023 Diag: Jonathan Hester

We advise that you check the fuel injection system. 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 a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

INTERNATIONAL FFB22

Diesel Engine

{not provided} (18 QTS)

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. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Metal levels are typical for a new component breaking in.

Contamination

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

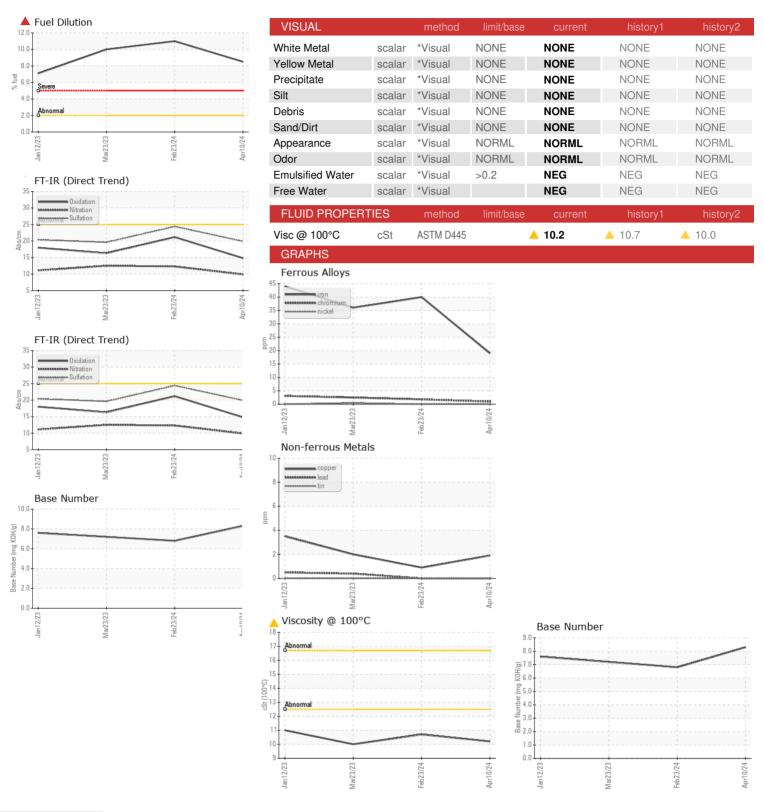
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		IL0036558	IL0034938	IL0031106
Sample Date		Client Info		10 Apr 2024	23 Feb 2024	23 Mar 2023
Machine Age	mls	Client Info		53587	53587	25920
Oil Age	mls	Client Info		3165	8680	5731
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	19	40	36
Chromium	ppm	ASTM D5185m	>20	1	2	2
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	3
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	2	<1	2
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		54	24	27
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	20	75
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		681	614	225
Calcium	ppm	ASTM D5185m		1223	1301	1736
Phosphorus	ppm	ASTM D5185m		953	945	930
Zinc	ppm	ASTM D5185m		1113	1115	1108
Sulfur	ppm	ASTM D5185m		3763	3764	3204
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	6
Sodium	ppm	ASTM D5185m		1	3	3
Potassium	ppm	ASTM D5185m	>20	2	1	1
Fuel	%	ASTM D3524	>2.0	▲ 8.5	1 1.0	1 0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.9	12.3	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	24.4	19.6
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
1 2015 52 61 11 157				34	,	
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	21.2	16.3
			>25			•



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : IL0036558 **Lab Number** : 06158292

Unique Number : 10993715

Received Tested Diagnosed

: 23 Apr 2024 : 25 Apr 2024 Test Package : FLEET (Additional Tests: PercentFuel)

: 25 Apr 2024 - Wes Davis

5 ACORN DR OAKWOOD VILLAGE, OH US 44146-5550 Contact: JOHN FOSTER FosterJ4@RushEnterprises.com

RUSH TRUCK LEASING - CLEVELAND IDEALEASE

To discuss this sample report, contact Customer Service at 1-800-237-1369. T: (440)359-7000 * - 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) F: (440)439-5657