

### **OIL ANALYSIS REPORT**

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#### Sample Rating Trend



# FREIGHTLINER 2371

#### **Diesel Engine**

## Fluid DIESEL ENGINE OIL SAE 15W40 (19 QTS)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

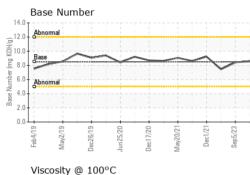
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

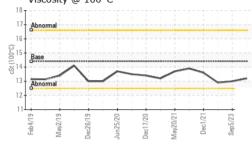
		eb2019 May	2019 Dec2019 Jun2020	Dec2020 May2021 Dec2021	Sep2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RW0004813	RW0004481	RW0002690
Sample Date		Client Info		23 Jan 2024	05 Sep 2023	14 Feb 2022
Machine Age	hrs	Client Info		7137	6698	5105
Oil Age	hrs	Client Info		439	638	373
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
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	>75	11	14	13
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>15	3	<1	2
Lead	ppm	ASTM D5185m	>25	3	0	<1
Copper	ppm	ASTM D5185m	>100	2	<1	<1
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	5	3	2
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	62	58	54
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m	450	954	936	891
Calcium	ppm	ASTM D5185m	3000	1070	1071	1029
Phosphorus	ppm	ASTM D5185m	1150	1080	961	952
Zinc	ppm	ASTM D5185m	1350	1308	1216	1152
Sulfur	ppm	ASTM D5185m	4250	3136	3369	2290
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	3	3
Sodium	ppm	ASTM D5185m	>158	3	2	2
Potassium	ppm	ASTM D5185m	>20	4	1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.0	10.2	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	20.8	19.1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	19.0	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.60	8.42	7.45
. ,	Contact/Location: JERRY BROCK - CITFARMI					

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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