

### **OIL ANALYSIS REPORT**

Sample Rating Trend

# GLYCOL

X

#### Area Heater Local Machine Id Carrier 81404H Component

Trailer Diesel Engine Fluid SAE 0W40 (5 LTR)

#### DIAGNOSIS

#### Recommendation

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### 🛑 Wear

Iron ppm levels are severe. Aluminum and chromium ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Ring wear is indicated. Piston wear is indicated.

#### Contamination

Test for glycol is positive. There is a high concentration of glycol present in the oil. There is a moderate concentration of water present in the oil.

#### Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

		Jul2017	7 Sep2019	Jui2020 M	ar2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0486542	WC0483687	WC0377223
Sample Date		Client Info		24 Mar 2023	20 Jul 2020	04 Sep 2019
Machine Age	kms	Client Info		257954	1278	774
Oil Age	kms	Client Info		0	175	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.9
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		12		
Iron	ppm	ASTM D5185(m)	>100	<b>e</b> 201	4	8
Chromium	ppm	ASTM D5185(m)	>20	<mark>/</mark> 16	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<mark>/</mark> 29	1	2
Lead	ppm	ASTM D5185(m)	>40	<1	0	0
Copper	ppm	ASTM D5185(m)	>330	7	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		<1	0	<1
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		36	21	165
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		279	56	43
Manganese	ppm	ASTM D5185(m)		2	<1	<1
Magnesium	ppm	ASTM D5185(m)		896	947	384
Calcium	ppm	ASTM D5185(m)		1026	1043	1421
Phosphorus	ppm	ASTM D5185(m)		1069	1010	742
Zinc	ppm	ASTM D5185(m)		1191	1161	842
Sulfur	ppm	ASTM D5185(m)		2673	2671	2697
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	116	3	4
Sodium	ppm	ASTM D5185(m)		<u> </u>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<u> </u>	<1	<1
Glycol	%	ASTM D7922*		<b> </b> >.70	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.9	0	0
Nitration	Abs/cm	ASTM D7624*	>20	35.3	6.6	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.8	22.9	17.1



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