

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **162108** Component **Diesel Engine** Fluid **{not provided} (--- GAL)**

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

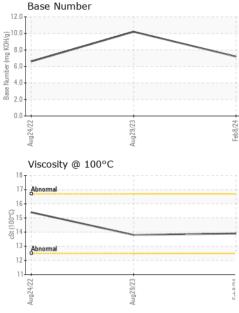
Fluid Condition

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

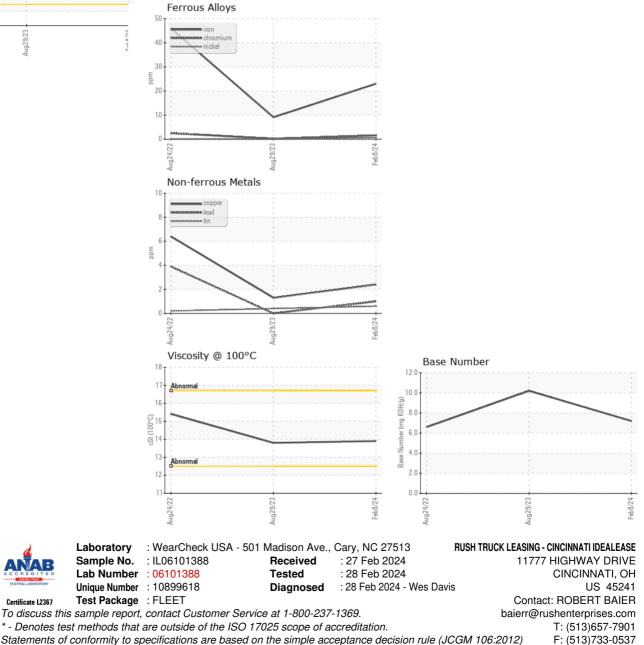
SAMPLE INFORM	IATION	method	limit/base	current	[™] history1	history2
Sample Number		Client Info		IL06101388	IL05952085	IL05655162
Sample Date		Client Info		08 Feb 2024	29 Aug 2023	24 Aug 2022
Machine Age	hrs	Client Info		12035	10720	7463
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1110	Client Info		N/A	0 N/A	0 N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel	N	WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	<1.0 NEG	<1.0 NEG	<1.0 NEG
Glycol		WC Method	>0.2	NEG	NEG	NEG
•		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	23	9	46
Chromium	ppm	ASTM D5185m	>20	2	<1	2
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	6	19
Lead	ppm	ASTM D5185m	>40	1	0	4
Copper	ppm	ASTM D5185m	>330	2	1	6
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		7	0	4
Barium	ppm	ASTM D5185m		1	0	2
Molybdenum	ppm	ASTM D5185m		68	63	63
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		786	945	943
Calcium	ppm	ASTM D5185m		962	1169	1273
Phosphorus	ppm	ACTM DE10Em				
	ppin	ASTM D5185m		889	1034	986
Zinc	ppm	ASTM D5185m		889 1059	1034 1247	986 1290
Zinc Sulfur						
	ppm ppm	ASTM D5185m	limit/base	1059	1247	1290
Sulfur	ppm ppm	ASTM D5185m ASTM D5185m		1059 2903	1247 3729	1290 3470
Sulfur CONTAMINANTS	ppm ppm	ASTM D5185m ASTM D5185m method		1059 2903 current	1247 3729 history1	1290 3470 history2
Sulfur CONTAMINANTS Silicon	ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	>25	1059 2903 current 7	1247 3729 history1 5	1290 3470 history2 5
Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>25	1059 2903 current 7 1	1247 3729 history1 5 3	1290 3470 history2 5 2
Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	1059 2903 current 7 1 9	1247 3729 history1 5 3 7	1290 3470 history2 5 2 43
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method	>25 >20 limit/base	1059 2903 current 7 1 9 current 2.5	1247 3729 history1 5 3 7 history1 1.1	1290 3470 history2 5 2 43 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>25 >20 limit/base >3 >20	1059 2903 current 7 1 9 current	1247 3729 history1 5 3 7 history1	1290 3470 <u>history2</u> 5 2 43 <u>history2</u> ▲ 3.9
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7844	>25 >20 limit/base >3 >20 >30	1059 2903 current 7 1 9 current 2.5 10.5 24.6	1247 3729 history1 5 3 7 history1 1.1 7.4 20.3	1290 3470 5 2 43 history2 ▲ 3.9 15.3 33.5
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm % Abs/cm Abs/cm Abs/1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >20 limit/base >3 >20 >30 limit/base	1059 2903 current 7 1 9 current 2.5 10.5 24.6 current	1247 3729 history1 5 3 7 history1 1.1 7.4 20.3 history1	1290 3470 bistory2 5 2 43 bistory2 3.9 15.3 33.5 bistory2
Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7844	>25 >20 limit/base >3 >20 >30 limit/base	1059 2903 current 7 1 9 current 2.5 10.5 24.6	1247 3729 history1 5 3 7 history1 1.1 7.4 20.3	1290 3470 bistory2 5 2 43 bistory2 ▲ 3.9 15.3 33.5



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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 PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445		13.9	13.8	15.4
СВАРИС						



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

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