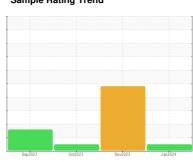


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id 135-12 Component **Natural Gas Engine NOT GIVEN (30 QTS)** 

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Oil and KO filters were changed @ 9596 hrs. That was the first oil change since KO install.)

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

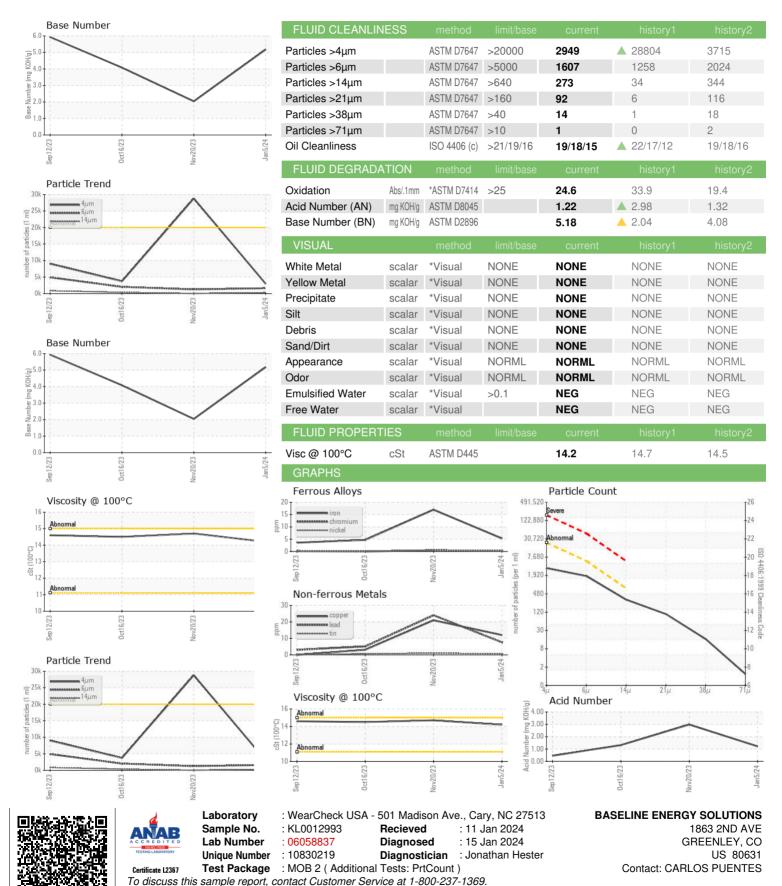
### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Sep20Z	3 Oct2023	Nov2023	an2024	
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KL0012993	KL0011512	KL0011961
Sample Date		Client Info		05 Jan 2024	20 Nov 2023	16 Oct 2023
Machine Age	hrs	Client Info		10244	9202	8366
Oil Age	hrs	Client Info		648	1783	673
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATION	1	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	17	5
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		40	16	17
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	2	3
Lead	ppm	ASTM D5185m	>30	8	<u>^</u> 24	5
Copper	ppm	ASTM D5185m	>35	12	<u>^</u> 21	3
Tin	ppm	ASTM D5185m	>4	<1	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		89	25	42
Barium	ppm	ASTM D5185m		2	2	0
Molybdenum	ppm	ASTM D5185m		18	225	183
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		21	10	7
Calcium	ppm	ASTM D5185m		1481	1462	1379
Phosphorus	ppm	ASTM D5185m		407	344	320
Zinc	ppm	ASTM D5185m		402	382	380
Sulfur	ppm	ASTM D5185m		2778	3593	2740
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	7	5
Sodium	ppm	ASTM D5185m		0	2	1
Potassium	ppm	ASTM D5185m	>20	2	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	10.8	11.4	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	27.3	19.2



## **OIL ANALYSIS REPORT**



\* - 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:

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