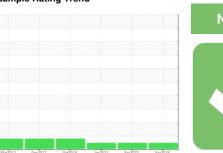


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

WARWICK NECK (S/N 241307)

Component
Natural Gas Engine

{not provided} (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

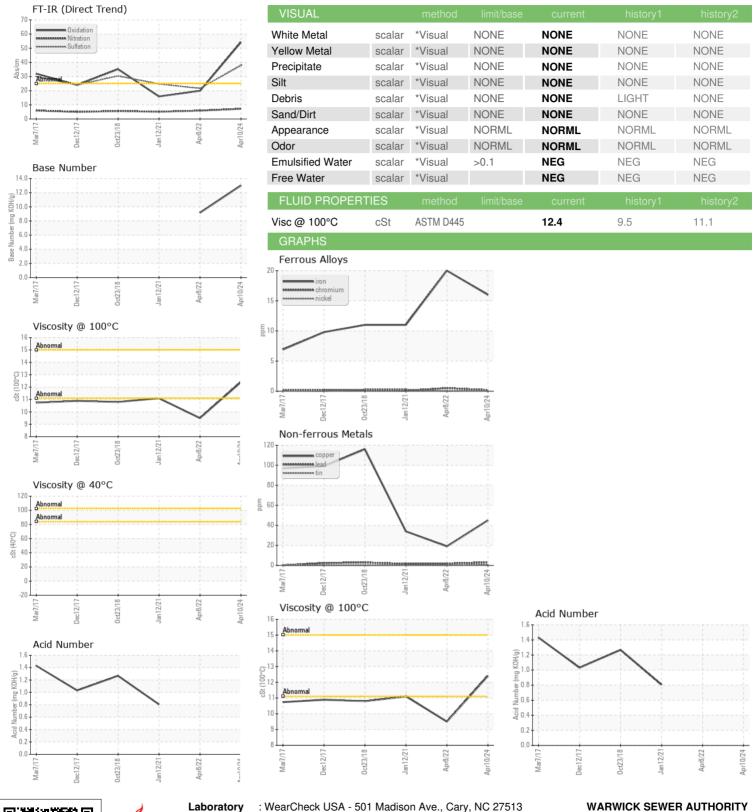
Fluid Condition

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	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0039458	RP0025677	RP0013474
Sample Date		Client Info		10 Apr 2024	08 Apr 2022	12 Jan 2021
Machine Age	hrs	Client Info		832	827	810
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	16	20	11
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>9	4	6	6
Lead	ppm	ASTM D5185m	>30	3	2	2
Copper	ppm	ASTM D5185m	>35	45	19	34
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	197	15
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		149	99	8
Manganese	ppm	ASTM D5185m		<1	4	<1
Magnesium	ppm	ASTM D5185m		882	237	19
Calcium	ppm	ASTM D5185m		2829	2461	3028
Phosphorus	ppm	ASTM D5185m		303	680	355
Zinc	ppm	ASTM D5185m		325	808	399
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	14	85	7
Sodium	ppm	ASTM D5185m		6	4	4
Potassium	ppm	ASTM D5185m	>20	5	10	2
Water	%	ASTM D6304	>0.1	NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.2	5.9	5.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	37.8	21.6	24.7
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	54.2	19.9	15.9
Acid Number (AN)	mg KOH/g	ASTM D8045				0.806
Base Number (BN)	mg KOH/g	ASTM D2896		13.00	9.15	
(2.4)						



OIL ANALYSIS REPORT







Certificate 12367

Laboratory

Sample No.

: RP0039458 Lab Number : 06179521 Unique Number : 11030847

Received : 14 May 2024 **Tested** Diagnosed

: 17 May 2024

: 17 May 2024 - Sean Felton

Test Package : IND 2 (Additional Tests: FT-IR, KV100, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

125 ARTHUR DEVINE BLVD

WARWICK, RI US 02888

Contact: JOHN BROSNAHAN john.s.brosnahan@warwickri.com

 st - 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)

Report Id: WARWARRI [WUSCAR] 06179521 (Generated: 05/17/2024 10:10:30) Rev: 1

Contact/Location: JOHN BROSNAHAN - WARWARRI

T:

F: