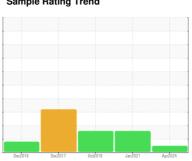


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

DAVIDSON (S/N A5797)

Component
Natural Gas Engine

{not provided} (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

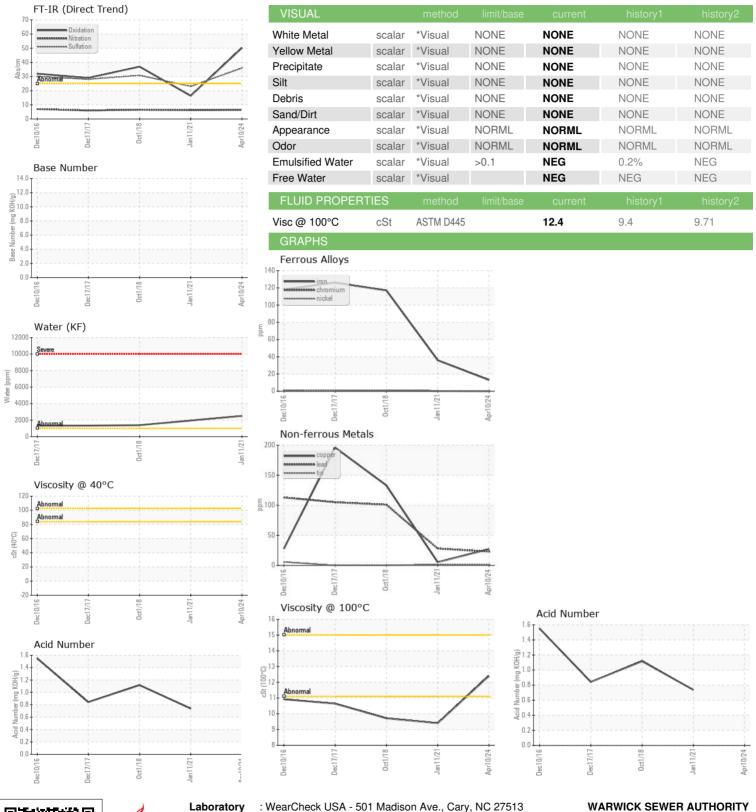
Fluid Condition

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

		Dec2016	Dec2017	Oct2018 Jan 2021	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0039457	RP0014806	RP203735
Sample Date		Client Info		10 Apr 2024	11 Jan 2021	01 Oct 2018
Machine Age	hrs	Client Info		236	230	222
Oil Age	hrs	Client Info		0	0	0
Oil Changed	0	Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	13	36	117
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	/ <u>L</u>	0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>9	3	6	2
Lead		ASTM D5185m	>30	23	28	<u>∠</u> 101
	ppm	ASTM D5185m	>35	27	5	▲ 133
Copper Tin	ppm	ASTM D5185m	>35	1	2	0
	ppm	ASTM D5185m	>4		0	<1
Antimony	ppm					
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	19	29
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m		121	12	8
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		857	13	12
Calcium	ppm	ASTM D5185m		2674	2985	1229
Phosphorus	ppm	ASTM D5185m		281	404	514
Zinc	ppm	ASTM D5185m		409	503	729
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	17	14	24
Sodium	ppm	ASTM D5185m		1	5	5
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.1	NEG	△ 0.251	0.139
ppm Water	ppm	ASTM D6304	>1000		<u>△</u> 2510	1390
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.4	6.2	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	36.0	23	30.8
FLUID DEGRADA	ATION _	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	50.2	16.4	37
Acid Number (AN)	mg KOH/g	ASTM D8045	7.20		0.737	1.117
Base Number (BN)	mg KOH/g	ASTM D0043		12.06	0.737	
Dase Mullipel (DIN)	IIIy N∪⊓/ÿ	79 LINI D5030		12.00		



OIL ANALYSIS REPORT







Laboratory

Sample No.

Lab Number : 06179504 Unique Number : 11030830

: RP0039457

Received : 14 May 2024 **Tested**

: 17 May 2024 Diagnosed : 17 May 2024 - Sean Felton

Test Package : IND 2 (Additional Tests: FT-IR, KV100, TBN)

Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation. **WARWICK SEWER AUTHORITY**

125 ARTHUR DEVINE BLVD WARWICK, RI US 02888

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

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

Report Id: WARWARRI [WUSCAR] 06179504 (Generated: 05/17/2024 08:12:11) Rev: 1

Contact/Location: JOHN BROSNAHAN - WARWARRI

F: