

OIL ANALYSIS REPORT



Sample Rating Trend



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).

Contamination

Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material.

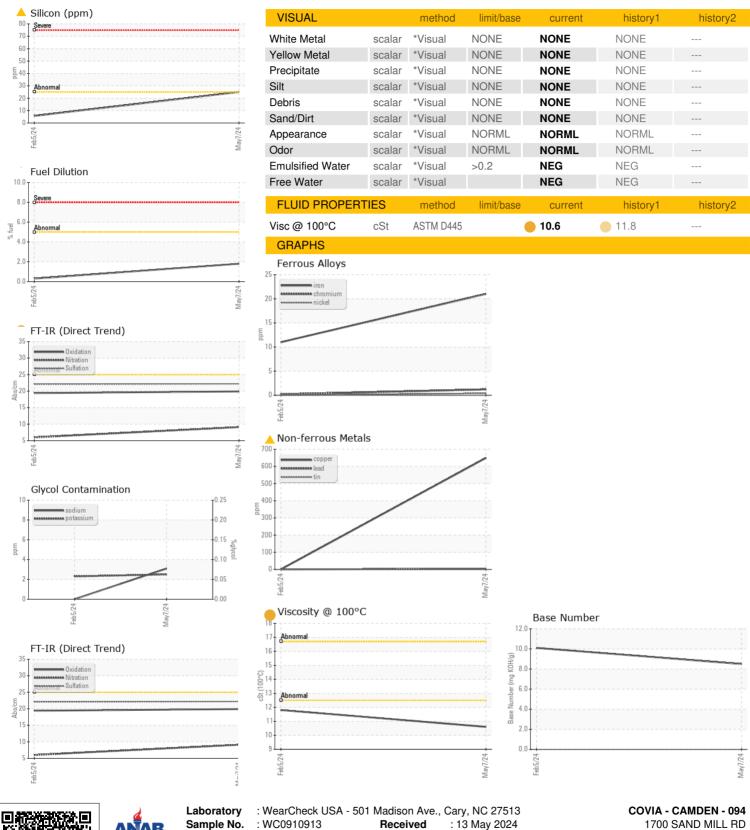
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

			Feb 2024	May2024		
SAMPLE INFORM	MATION	method	limit/base	ourront.	hiotorya	hiotory
	IATION		imit/base	current	history1	history2
Sample Number		Client Info		WC0910913	WC0880673	
Sample Date		Client Info		07 May 2024	05 Feb 2024	
Machine Age	hrs	Client Info		25677	25181	
Oil Age	hrs	Client Info		500	500	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ATTENTION	
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	21	11	
Chromium	ppm	ASTM D5185m	>20	1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m	>2	<1	<1	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>25	3	1	
Lead	ppm	ASTM D5185m	>40	3	0	
Copper	ppm	ASTM D5185m	>330	^ 649	<1	
Tin	ppm	ASTM D5185m	>15	5	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		27	66	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		38	44	
Manganese	ppm	ASTM D5185m		1	0	
Magnesium	ppm	ASTM D5185m		435	498	
Calcium	ppm	ASTM D5185m		1639	1641	
Phosphorus	ppm	ASTM D5185m		860	857	
Zinc	ppm	ASTM D5185m		1050	1148	
Sulfur	ppm	ASTM D5185m		3066	2718	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<u> </u>	6	
Sodium	ppm	ASTM D5185m		3	0	
Potassium	ppm	ASTM D5185m	>20	2	2	
Fuel	%	ASTM D3524	>5	1.8	0.3	
Glycol	%	*ASTM D2982		NEG	NEG	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	
Soot % Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624	>3 >20	0.3 9.1	0.2 6.0	
			>20			
Nitration	Abs/cm Abs/.1mm	*ASTM D7624	>20	9.1	6.0	
Nitration Sulfation FLUID DEGRADA	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415 method	>20 >30 limit/base	9.1 22.2 current	6.0 22.1 history1	
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30 limit/base	9.1 22.2	6.0 22.1	 history2



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Certificate 12367

Sample No.

: WC0910913 Lab Number : 06178091 Unique Number : 11029417

Received **Tested**

: 17 May 2024 Diagnosed : 17 May 2024 - Jonathan Hester Test Package : CONST (Additional Tests: FuelDilution, Glycol, PercentFuel, TBN)

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.

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

Contact/Location: TRACY KEE - COVCAMTN

CAMDEN, TN

Contact: TRACY KEE

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