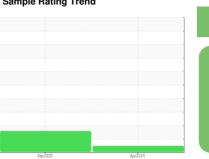


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **AMBER ACRES**

Diesel Engine

SHELL 15W40 (2 GAL)

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

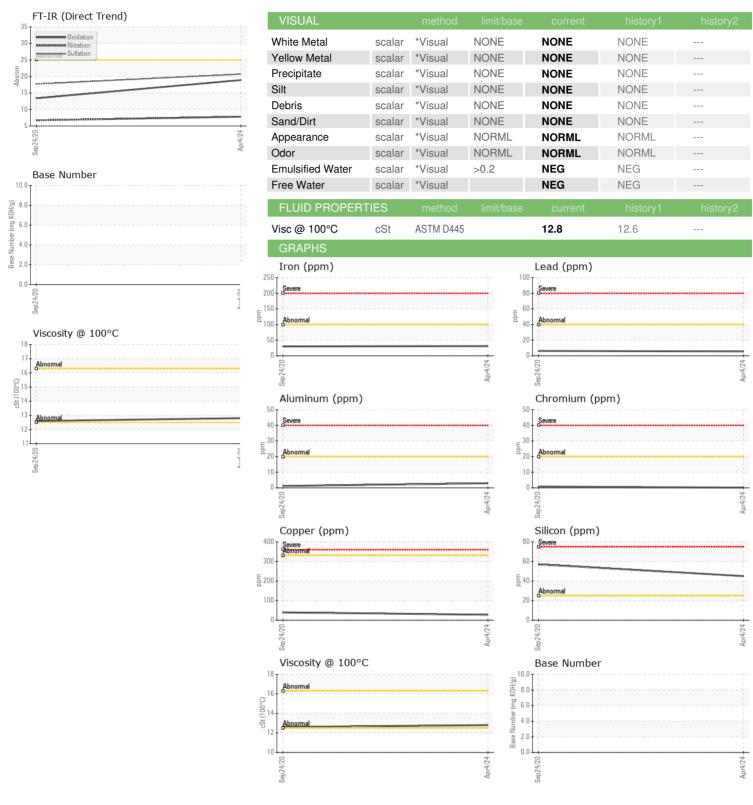
Fluid Condition

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

		-	Sep 2020	Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
	ATION		IIIIIII/Dase			HISTOTYZ
Sample Number		Client Info		WC0858819	WCM1389053	
Sample Date		Client Info		04 Apr 2024	24 Sep 2020	
Machine Age	hrs	Client Info		71	72	
Oil Age	hrs	Client Info		71	40	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	31	30	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	<1	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	1	
Lead	ppm	ASTM D5185m	>40	6	6	
Copper	ppm	ASTM D5185m	>330	28	40	
Tin	ppm	ASTM D5185m	>15	1	2	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		49	19	
Barium	ppm	ASTM D5185m		2	4	
Molybdenum	ppm	ASTM D5185m		47	55	
Manganese	ppm	ASTM D5185m		26	42	
Magnesium	ppm	ASTM D5185m		588	792	
Calcium	ppm	ASTM D5185m		2141	1476	
Phosphorus	ppm	ASTM D5185m		1047	1061	
Zinc	ppm	ASTM D5185m		1295	1174	
Sulfur	ppm	ASTM D5185m		4979	3196	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	45	<u></u> 57	
Sodium	ppm	ASTM D5185m	>150	8	12	
Potassium	ppm	ASTM D5185m	>20	<1	1	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	7.8	6.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	17.7	
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2
Ovidation	Ahe/1mm	*ASTM D7/11/	> 25	10.0	12/	
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25	18.9 8.6	13.4	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0858819 Lab Number : 06142002 Unique Number : 10966810

Received : 08 Apr 2024 **Tested**

: 09 Apr 2024

Diagnosed : 09 Apr 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: TBN)

US 27560 Contact: TERESA CHESTER teresa.chester@bittingelectric.com

ALTERNATIVE POWER

1000 NORTHGATE CT

MORRISVILLE, NC

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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)

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