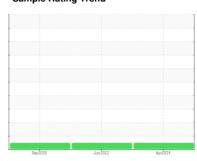


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



AMBER RIDGE Component

Component

Diesel Engine

SHELL 15W40 (4 GAL)

 ΙА	G١	M/	15	-	

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

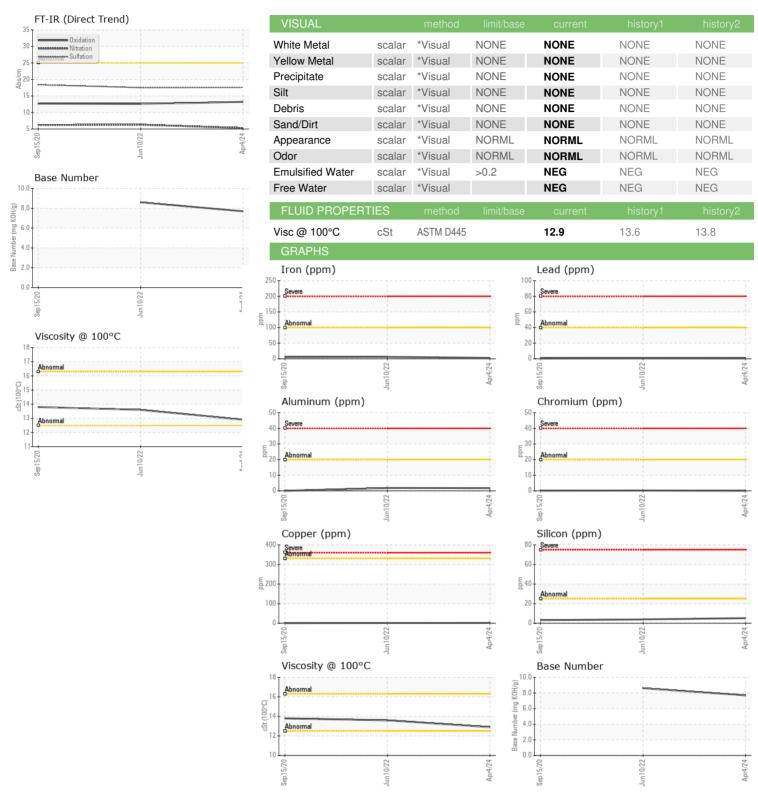
Fluid Condition

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

Sep2020 Jun2022 Apr2024						
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0858818	WC0700360	WCM1389051
Sample Date		Client Info		04 Apr 2024	10 Jun 2022	15 Sep 2020
Machine Age	hrs	Client Info		337	290	239
Oil Age	hrs	Client Info		47	52	40
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	3	6	6
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	2	0
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	2	1	<1
Tin	ppm	ASTM D5185m	>15	0	1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		219	75	67
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		67	9	3
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		358	417	452
Calcium	ppm	ASTM D5185m		1668	1651	1693
Phosphorus	ppm	ASTM D5185m		985	999	1045
Zinc	ppm	ASTM D5185m		1169	1170	1139
Sulfur	ppm	ASTM D5185m		4020	3765	3476
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	3
Sodium	ppm	ASTM D5185m	>150	<1	4	5
Potassium	ppm	ASTM D5185m	>20	1	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.3	6.3	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	17.5	18.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2	12.6	12.7
Base Number (BN)	mg KOH/g	ASTM D2896		7.7	8.6	
1.0E.0E\ Day 1				حاد یا	:44-4 D DODE!	OT MOADTHUD



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06142004 Unique Number : 10966812

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0858818

Received **Tested** Diagnosed

: 08 Apr 2024 : 09 Apr 2024

: 09 Apr 2024 - Wes Davis

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

ALTERNATIVE POWER

1000 NORTHGATE CT

Test Package : MOB 1 (Additional Tests: 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)

T:

F: