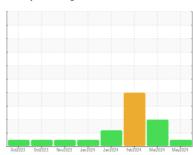


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id 1704 Component

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

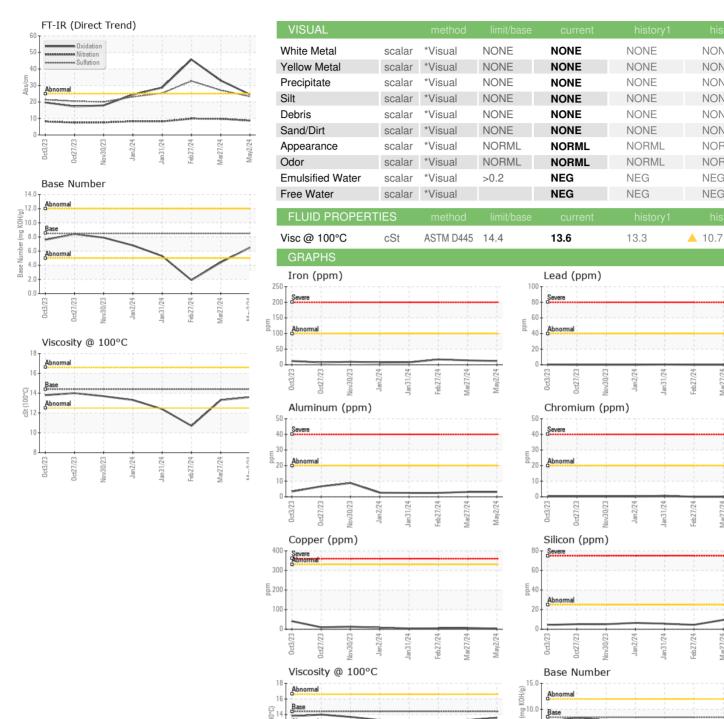
Fluid Condition

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

		0ct2023 0	Oct2023 Nov2023 Jan20	24 Jan 2024 Feb 2024 Mar 2024	May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0897839	WC0894020	WC0893974
Sample Date		Client Info		02 May 2024	27 Mar 2024	27 Feb 2024
Machine Age	mls	Client Info		440533	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	ABNORMAL	SEVERE
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	4.4	1 3.6
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	12	14	17
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	2
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	3	7	5
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	2	2	0
Barium	ppm	ASTM D5185m	10	2	0	0
Molybdenum	ppm	ASTM D5185m	100	58	52	52
Manganese	ppm	ASTM D5185m	450	<1	<1	0
Magnesium	ppm	ASTM D5185m	450	854	839	860
Calcium	ppm	ASTM D5185m	3000	1087	1001	912
Phosphorus	ppm	ASTM D5185m	1150 1350	1026	913 1136	873 1101
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	4250	1150 3128	3154	2563
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>25	17	10	4
Sodium	ppm	ASTM D5185m	>25	<1	3	2
Potassium	ppm	ASTM D5185m	>20	5	<1	1
INFRA-RED	1-1-	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.5	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.7	9.8	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3	27.1	△ 32.7
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.5	33.0	45.7
Base Number (BN)	mg KOH/g	ASTM D2896		6.5	4.4	▲ 1.9
= 200 · Janibon (D14)		. 10 . 111 DE000	5.0	5.5		



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

: WC0897839 Lab Number : 06176787

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Tested Unique Number : 11022840

: 14 May 2024

Diagnosed : 14 May 2024 - Wes Davis

: 13 May 2024

0.0

Test Package : MOB 1 (Additional Tests: TBN) 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)

GO DURHAM - RAPT

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

1903 FAYETTEVILLE ST DURHAM, NC US 27701

Contact: Robert Iosiniecki Robert.losiniecki@ratpdev.com

T: F: