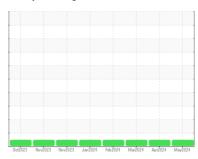


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
1711
Component
Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

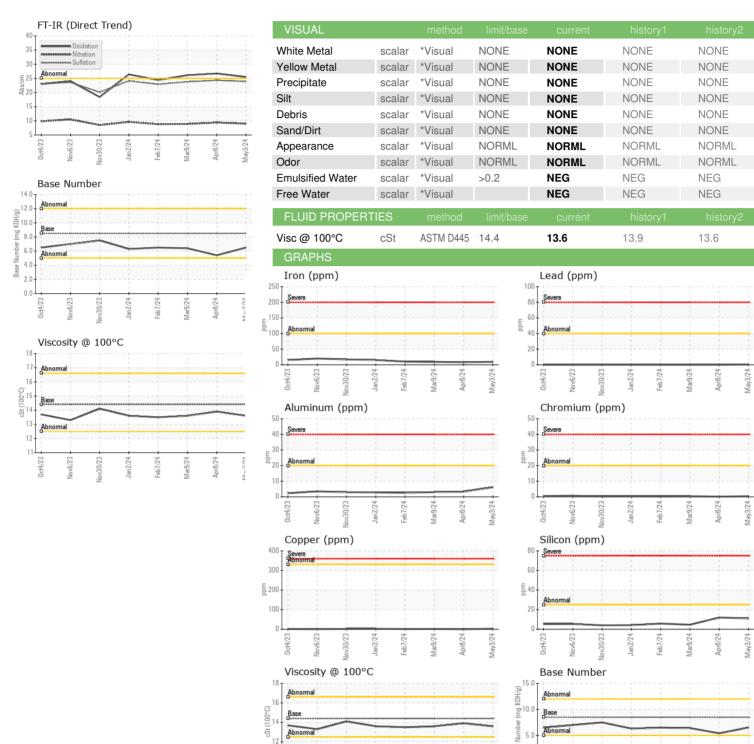
Fluid Condition

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

		Oct2023	lov2023 Nov2023 Jan20	24 Feb2024 Mar2024 Apr2024	May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0897841	WC0897868	WC0878869
Sample Date		Client Info		03 May 2024	08 Apr 2024	09 Mar 2024
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	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	9	8	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	6	3	3
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	2	0	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	0	2	0
Barium	ppm	ASTM D5185m	10	2	0	2
Molybdenum	ppm	ASTM D5185m	100	59	55	58
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	450	848	885	873
Calcium	ppm	ASTM D5185m	3000	1071	1000	1043
Phosphorus	ppm	ASTM D5185m	1150	953	953	986
Zinc	ppm	ASTM D5185m	1350	1107	1139	1164
Sulfur	ppm	ASTM D5185m	4250	2850	3110	3101
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	12	5
Sodium	ppm	ASTM D5185m	>158	<1	2	<1
Potassium	ppm	ASTM D5185m	>20	6	2	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.0	9.4	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	24.3	23.8
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.5	26.7	26.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.5	5.4	6.4



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06176788 Unique Number : 11022841

10

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0897841

Received : 13 May 2024 **Tested** Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 14 May 2024

May3/24

: 14 May 2024 - Sean Felton

0.0

US 27701 Contact: Robert Iosiniecki Robert.losiniecki@ratpdev.com T:

GO DURHAM - RAPT

DURHAM, NC

1903 FAYETTEVILLE ST

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)

F: