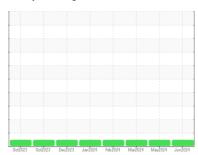


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 1019 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

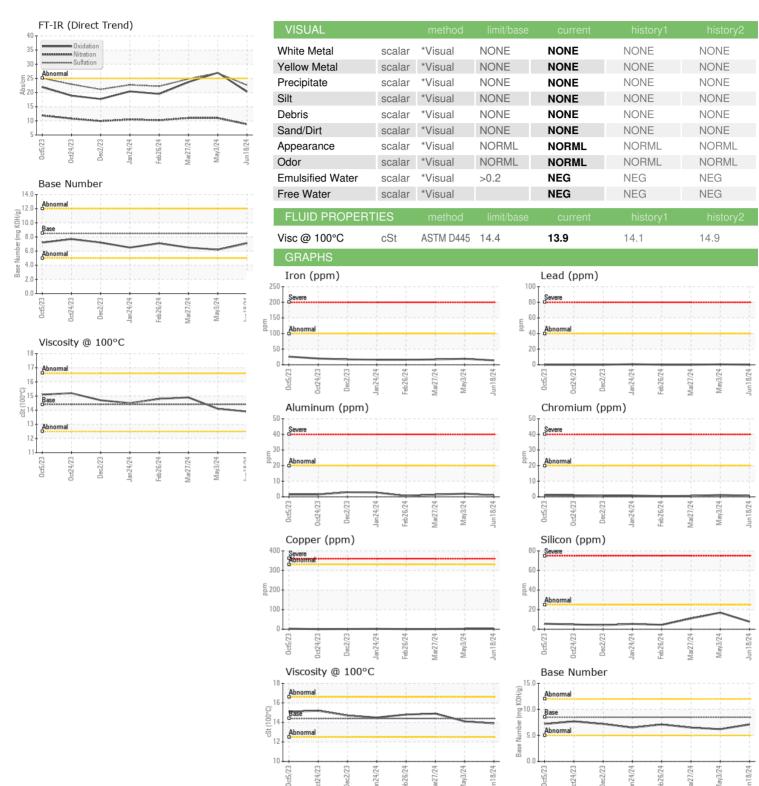
Fluid Condition

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

Oct2023 Oct2023 Doc2023 Jan2024 Feb2024 Mar2024 Mary2024 Jun2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0946388	WC0897890	WC0893957
Sample Date		Client Info		18 Jun 2024	03 May 2024	27 Mar 2024
Machine Age	mls	Client Info		795595	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
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	14	19	17
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	1	2	1
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	1	2	1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	<1	0	2
Barium	ppm	ASTM D5185m	10	0	2	0
Molybdenum	ppm	ASTM D5185m	100	58	63	61
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	977	929	979
Calcium	ppm	ASTM D5185m		1158	1138	1090
Phosphorus	ppm	ASTM D5185m	1150	1052	1064	1054
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1350 4250	1320	1224 3111	1303 3354
	ppm			3526		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		8	17	11
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m		3 4	<1 5	2 <1
	ppm					
INFRA-RED	0/	method	limit/base	current	history1	history2
Soot %	% Abolom	*ASTM D7844	>3	0.9	1.4	1.4
Nitration	Abs/cm	*ASTM D7624		8.8	11.0	11.0
Sulfation	Abs/.1mm	*ASTM D7415		22.6	26.9	24.8
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	27.0	23.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.1	6.2	6.5



OIL ANALYSIS REPORT







Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0946388 Lab Number : 06219137

Unique Number : 11097334

Received **Tested** Diagnosed

Test Package : MOB 1 (Additional Tests: TBN) Certificate 12367 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.

GO DURHAM - RAPT

1903 FAYETTEVILLE ST DURHAM, NC US 27701

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

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

: 24 Jun 2024

: 25 Jun 2024

: 25 Jun 2024 - Wes Davis

Report Id: GODDUR [WUSCAR] 06219137 (Generated: 06/25/2024 16:31:35) Rev: 1

Contact/Location: Robert Iosiniecki - GODDUR

F: