

OIL ANALYSIS

Machine Id

W/C CO DES PGN-25 FLEET #038

Diesel Engine Fluic

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

A Wear

Cylinder, crank, or cam shaft wear is indicated.

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 acceptable for the time in service.

		Samp	le Rating Tre	end		
YSIS REPC	RT	1				WEAR
#038220 96 ⁻	1765					
		Ma	y2022	May2023 Apr20	124	
SAMPLE INFORM		method	limit/base	ourroat	biotomit	biotom/0
	ATION		inniv base		history1	history2
Sample Number		Client Info		WC0921730	WC0799841	WC0651476
Sample Date		Client Info		15 Apr 2024	14 May 2023	05 May 2022
Machine Age	hrs	Client Info Client Info		0	0	0
Oil Age Oil Changed	hrs	Client Info		u Changed	N/A	Changed
Sample Status		Chefit Inio		ABNORMAL	NORMAL	NORMAL
-						-
CONTAMINATIO	N	method	limit/base	current	history1	history2
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	115	1	1
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	1	2
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	0	0	<1
Tin	ppm	ASTM D5185m	>15	3	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	30	10	84
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	57	48	78
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	590	767	42
Calcium	ppm	ASTM D5185m	3000	1296	1180	2074
Phosphorus	ppm	ASTM D5185m	1150	949	987	979
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1350 4250	1089 3470	1294 4229	1161 3812
	ppm					
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	5	3
Sodium	ppm	ASTM D5185m	>158	0	<1	2
Potassium	ppm	ASTM D5185m	>20	2	2	0
Fuel	%	ASTM D3524		0.6	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624		7.8	4.4	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	13.6	16.8	15.8
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.8	11.9	11.8
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	11.3	9.2	7.7

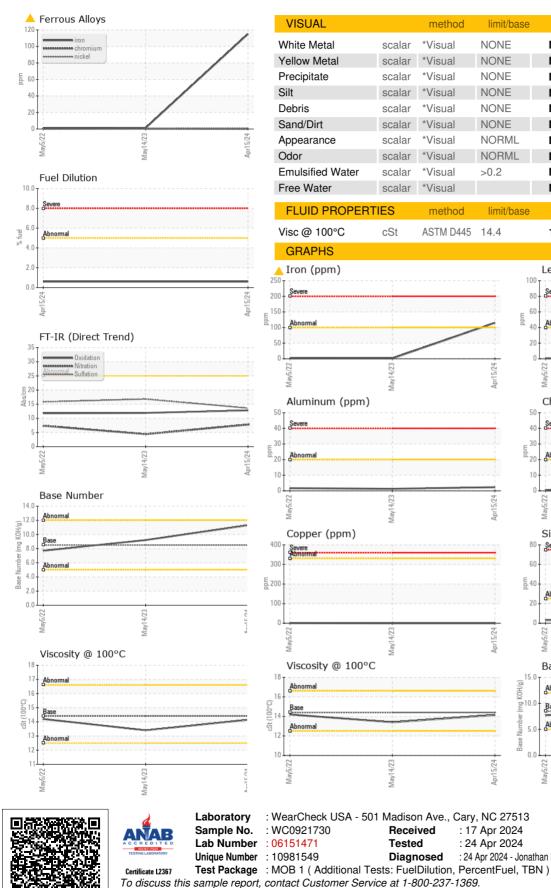


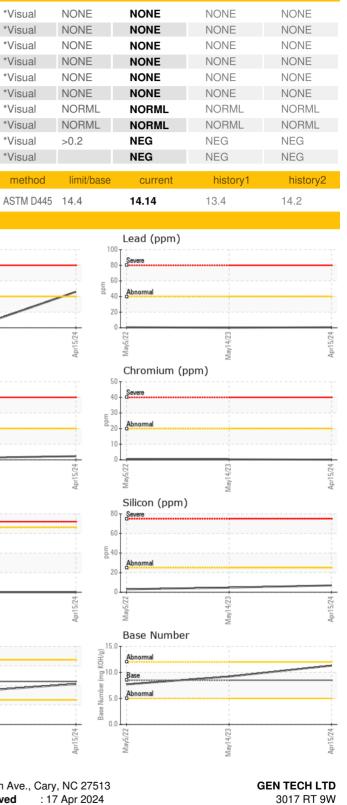
OIL ANALYSIS REPORT

limit/base

current

method





history1

history2

3017 RT 9W NEW WINDSOR, NY US 12553 Contact: JOE SAYEGH joe@gentechltd.com T: (845)568-0500 F: (845)568-3073

Report Id: GENNEW [WUSCAR] 06151471 (Generated: 04/24/2024 18:32:49) Rev: 1

* - 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)

Contact/Location: JOE SAYEGH - GENNEW

: 24 Apr 2024

: 24 Apr 2024 - Jonathan Hester