

OIL ANALYSIS REPORT

[62005593463]

22

Component

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- QTS)

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

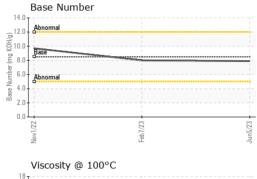
Fluid Condition

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

			v2022	Feb2023 Jun20		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0800009	WC0723391	WC0723378
Sample Date		Client Info		05 Jun 2023	07 Feb 2023	01 Nov 2022
Machine Age	mls	Client Info		110312	99697	94681
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		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	18	33	45
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		62	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	6	7
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	0	<1	2
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	99	76	50
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	9	10	12
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	536	723	725
Calcium	ppm	ASTM D5185m	3000	1708	1421	1417
Phosphorus	ppm	ASTM D5185m	1150	1073	1049	1025
Zinc	ppm	ASTM D5185m	1350	1275	1270	1285
Sulfur	ppm	ASTM D5185m	4250	4782	4196	4300
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	6
Sodium	ppm	ASTM D5185m	>216	3	2	2
Potassium	ppm	ASTM D5185m	>20	3	3	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.8	1.2
Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.0	10.3
Sulfation	Abs/.1mm	*ASTM D7415		20.9	18.4	23.0
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	12.1	14.6
Base Number (BN)	mg KOH/g	ASTM D2896		7.9	8.0	9.7
(2.1)	.5 9					



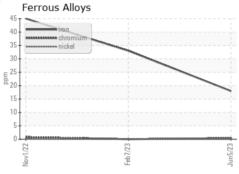
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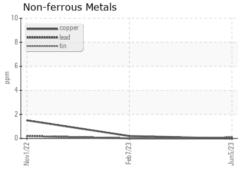


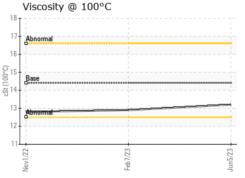
Viscosi	ty @ 100°C		
17 Abnormal			
16			
0015 Base			
13 Abnormal			
11 22		53	
Nov1/22		Feb7/23	

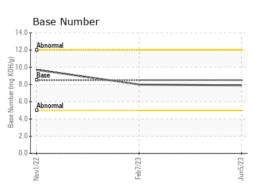
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPER	TILO	memod			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	14.4	13.2	12.9	12.8













Laboratory Sample No. Lab Number Unique Number : 10509843 Test Package : FLEET

: WC0800009 : 05870059

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 09 Jun 2023 Received Diagnosed : 12 Jun 2023

Diagnostician : Wes Davis

Certificate L2367 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.

CASWELL COUNTY SCHOOL BUS

353 COUNTY HOME ROAD YANCEYVILLE, NC

US 27379 Contact: DEBRA MOORE

debra.moore@caswell.k12.nc.us

T: (336)694-4116

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