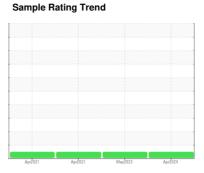


OIL ANALYSIS REPORT

[PMOAS3372452] 1D6C200-2M P1306180005

Diesel Engine

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





DIAGNOSIS

Recommendation

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

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

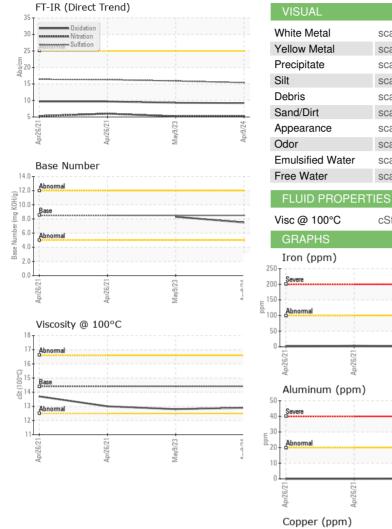
Fluid Condition

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

SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		DC0034955	DC0026382	DC0009591
Sample Date		Client Info		09 Apr 2024	09 May 2023	26 Apr 2021
	hrs	Client Info		62	35	0
	hrs	Client Info		12	11	0
Oil Changed	1110	Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Fuel			>5	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
			>0.2	NEG	NEG	
Glycol		WC Method				NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	1	2	1
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	1	<1	0
Lead	ppm	ASTM D5185m	>40	<1	1	<1
Copper	ppm	ASTM D5185m	>330	3	5	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	5	3	5
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	3	4	2
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	450	46	64	43
Calcium	ppm	ASTM D5185m	3000	2343	2232	2321
Phosphorus	ppm	ASTM D5185m	1150	992	879	920
Zinc	ppm	ASTM D5185m	1350	1087	1084	975
Sulfur	ppm	ASTM D5185m	4250	4041	4412	3395
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	9	2
	ppm	ASTM D5185m	>158	1	2	4
	ppm	ASTM D5185m	>20	3	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0	0
	Abs/cm	*ASTM D7624	>20	5.3	5.2	6
	Abs/.1mm	*ASTM D7415	>30	15.4	15.9	16.3
FLUID DEGRADAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.2	9.3	9.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.5	8.3	
57.40\ D	0 - "3					



OIL ANALYSIS REPORT



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 PROPERT	TIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	12.9	12.8	13.0
GRAPHS						
Iron (ppm)			10	Lead (ppm)		
200 Severe				Severe		1
				0		
Abnormal			udd 4	Abnormal		-
50			2	0 -		
0			-	0 1	+	
Apr26,21 Apr26,21		May9/23	Apr9/24	Apr26/21	Apr26/21	Арг9/24
ظ عرب على المارة الم		≥	A	₹ Chromium (p		E 4
50 T			5		рии <i>)</i>	
40 Severe			4	0 Severe		
Abnormal			E3	0		
20 - Abnormal	************		E 3	Abnormal		-
10			1			
/21 17 10 10 10 10 10 10 10 10 10 10 10 10 10		723	724	0 12/		724
Apr26/21 Apr26/21		May9/23	Apr9/24	Apr26/21	Apr26/21	May5).23
Copper (ppm)				Silicon (ppm)		
Severe Patriormal			8	Severe		
300			G	0 +		
E 200			<u>E</u> 4			
100			2	Abnormal		1
Apr26/21		May9/23 .	Apr9/24 ·	Apr26/21-	Apr26/21.	Арг9/23 -
		Мау	Ap			Ap
Viscosity @ 100°C				Base Number		
Abnormal				Abnormal		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Base			<u>x</u> 10.	Base		
Base Abnormal			mper 5.	Abnormal		
12			Base Number (mg KOH/g)			
10 12		- 53	─ 0.			3 5
Apr26/21 Apr26/21		May9/23	Apr9/24	Apr26/21	Apr26/21	Apr9/24
A A		2	~	⋖	4 2	2





Certificate 12367

Laboratory

Sample No. : DC0034955 Lab Number : 06151826

Unique Number : 10981904

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Apr 2024 **Tested**

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

: 18 Apr 2024 : 18 Apr 2024 - Wes Davis

KELLY GENERATOR & EQUIPMENT INC 1955 DALE LN OWINGS, MD US 20736

Contact: LESLIE SNURR To discuss this sample report, contact Customer Service at 1-800-237-1369. LSNURR@KGE.COM

* - 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) T: (410)257-5225

F: (410)257-5227