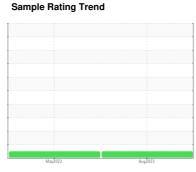


OIL ANALYSIS REPORT

(51491Z) Walgreens [Walgreens] 136A63353

Diesel Engine

SAE 0W30 (11 GAL)





DIAGNOSIS

Recommendation

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

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

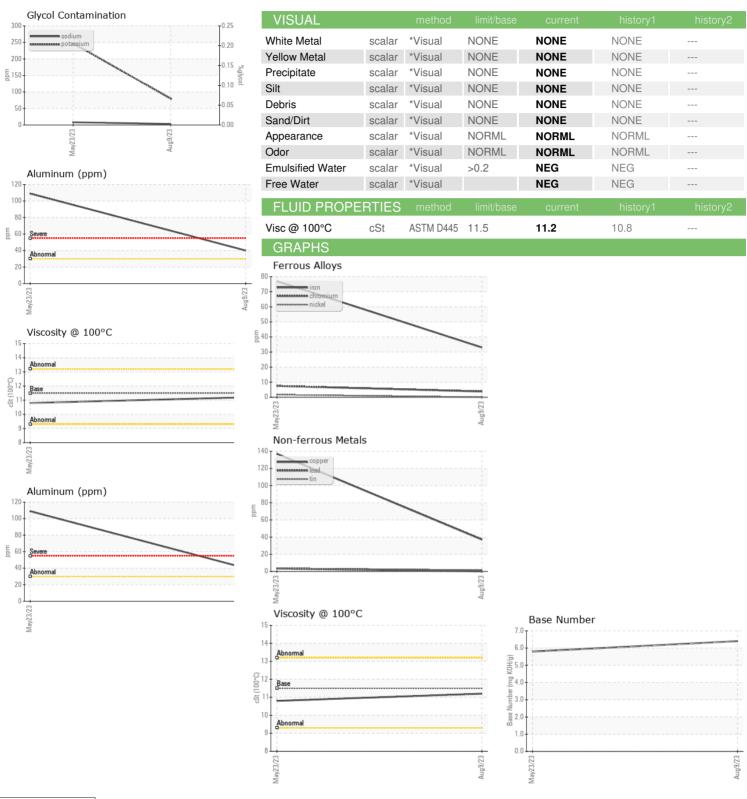
Fluid Condition

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

		L	May2023	Aug2023		
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0103545	PCA0092942	
Sample Date		Client Info		09 Aug 2023	23 May 2023	
Machine Age	mls	Client Info		108798	66049	
Oil Age	mls	Client Info		60000	66049	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron		ASTM D5185m	>80	33	77	,_
Chromium	ppm	ASTM D5185m	>50 >5	4	8	
Nickel	ppm	ASTM D5185m	>5	0	2	
Nickei Titanium	ppm		>C	υ <1		
	ppm	ASTM D5185m ASTM D5185m	. 0	<1 0	<1	
Silver	ppm		>3		<1	
Aluminum	ppm		>30	40	109	
Lead	ppm	ASTM D5185m	>30	0	3	
Copper	ppm		>150	37	137	
Tin	ppm	ASTM D5185m	>5	1	4	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	16	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		61	49	
Manganese	ppm	ASTM D5185m		1	5	
Magnesium	ppm	ASTM D5185m		958	704	
Calcium	ppm	ASTM D5185m		1253	1665	
Phosphorus	ppm	ASTM D5185m		888	834	
Zinc	ppm	ASTM D5185m		1205	1037	
Sulfur	ppm	ASTM D5185m		2376	2363	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	5	10	
Sodium	ppm	ASTM D5185m	>12	3	8	
Potassium	ppm	ASTM D5185m	>20	80	247	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.7	
Nitration	Abs/cm	*ASTM D7624	>20	9.5	12.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	24.4	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6	27.7	



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: PCA0103545 : 05930258 : 10615529

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed Test Package : FLEET

: 21 Aug 2023 : 23 Aug 2023 : Sean Felton Diagnostician

Transervice - Shop 1369 - Berkeley-Waxahachie 710 Ovilla Road

Waxahachie, TX US 75167 Contact: Robert Beal

rbeal@transervice.com T: (972)923-9928

F: (972)923-9919

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)

Report Id: TSV1369 [WUSCAR] 05930258 (Generated: 08/23/2023 13:41:27) Rev: 1

Contact/Location: Robert Beal - TSV1369