

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



602 (S/N 1npcl7ex4ld629513)

1 Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

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.

		0ct202	1 Jun2022	Mar2023 Si	p2023	
SAMPLE INFOR	MATION		limit/base	current	history1	history2
Sample Number		Client Info		PCA0082814	PCA0069579	PCA0058395
Sample Date		Client Info		26 Sep 2023	29 Mar 2023	27 Jun 2022
Machine Age	hrs	Client Info		0	2808	0
Oil Age	hrs	Client Info		0	620	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	16	42
Chromium	ppm	ASTM D5185m	>20	<1	2	4
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	6	13	<u> </u>
Lead	ppm	ASTM D5185m	>40	<1	1	2
Copper	ppm	ASTM D5185m	>330	4	4	22
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Antimony	ppm	ASTM D5185m				
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	2	3	6
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	65	63	53
Manganese	ppm	ASTM D5185m		0	<1	2
Magnesium	ppm	ASTM D5185m	450	928	987	800
Calcium	ppm	ASTM D5185m	3000	1112	1170	1365
Phosphorus	ppm	ASTM D5185m	1150	1076	1032	959
Zinc	ppm	ASTM D5185m	1350	1236	1261	1190
Sulfur	ppm	ASTM D5185m	4250	3543	3370	3170
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	9	△ 31
Sodium	ppm	ASTM D5185m	>216	0	2	4
Potassium	ppm	ASTM D5185m	>20	16	31	38
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.6	8.0	11.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	20.1	24.1

FLUID DEGRADATION method

Base Number (BN) mg KOH/g ASTM D2896 8.5

Abs/.1mm *ASTM D7414 >25

15.3

8.0

Oxidation

16.7

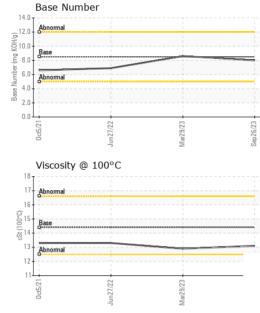
8.6

21.1

6.9



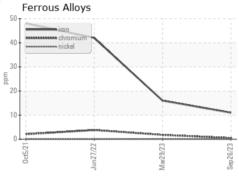
OIL ANALYSIS REPORT

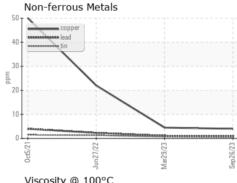


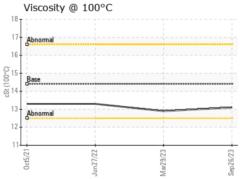
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

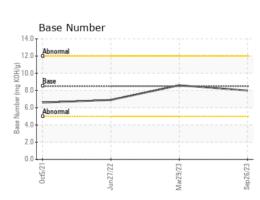
L LOID PROPI	ERITES	memoa			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	14.4	13.1	12.9	13.3

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10708877

: PCA0082814 : 05986215 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Oct 2023 Diagnosed

: 24 Oct 2023 Diagnostician : Wes Davis

AVR - APPLE VALLEY READY MIX

14698 GALAXY AVE APPLE VALLEY, MN US 55124

Contact: senia zimmer

avrconcrete.senia@gmail.com T: (952)953-2992

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)

F: (952)953-2994