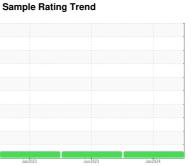


OIL ANALYSIS REPORT









Machine Id L4168 Component **Diesel Engine**

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

Recommendation

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

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

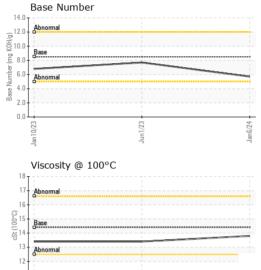
Fluid Condition

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

AE 15W40 (C	iAL)	Jar	12023	Jun2023 Jan20	024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0847895	WC0759983	WC0759974
Sample Date		Client Info		06 Jan 2024	01 Jun 2023	10 Jan 2023
Machine Age	hrs	Client Info		8903	7310	6962
Oil Age	hrs	Client Info		1593	6962	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIC	N	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<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
ron	ppm	ASTM D5185m	>120	27	9	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Γitanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	1	1
_ead	ppm	ASTM D5185m	>40	3	1	<1
Copper	ppm	ASTM D5185m	>330	2	1	1
Γin	ppm	ASTM D5185m	>15	<1	1	<1
/anadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	4	9	2
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m	100	65	63	61
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	915	920	864
Calcium	ppm	ASTM D5185m	3000	1254	1237	1140
Phosphorus	ppm	ASTM D5185m	1150	985	988	955
Zinc	ppm	ASTM D5185m	1350	1246	1229	1183
Sulfur	ppm	ASTM D5185m	4250	2610	3477	2960
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	3
Sodium	ppm	ASTM D5185m	>158	10	6	5
Potassium	ppm	ASTM D5185m	>20	<1	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.7	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.5	7.9	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	19.2	19.8
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	14.2	14.9
				10.0	17.2	14.5



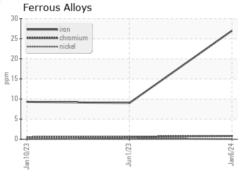
OIL ANALYSIS REPORT

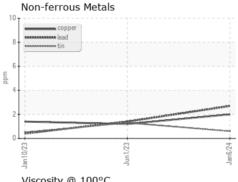


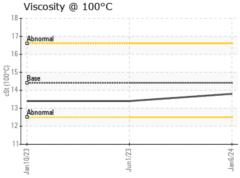
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

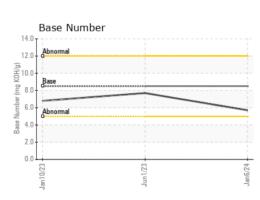
FLUID PROPERTIES		method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.4	13.8	13.4	13.4

GRAPHS











Certificate L2367

Report Id: AVWCHA [WUSCAR] 06061806 (Generated: 01/18/2024 00:14:14) Rev: 1

Laboratory Sample No. Lab Number

Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0847895 : 06061806

Recieved : 10833188

: 16 Jan 2024 Diagnosed

: 18 Jan 2024

Diagnostician : Wes Davis

Test Package : CONST (Additional Tests: TBN) 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)

Apple Valley Waste - Chambersburg Location

5436 Sunset Pike Chambersburg, PA

US 17202

Contact: Service Manager

T: F: