

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
L4168
Component
Diesel Engine
Fluid

DIESEL ENGINE OIL SAE 15W40 (--- GAL

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with 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 oil

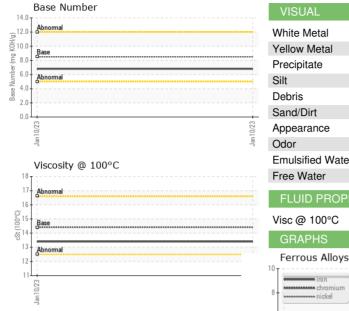
Fluid Condition

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

NE 15W40 (G	iAL)			Jan 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0759974		
Sample Date		Client Info		10 Jan 2023		
Machine Age	hrs	Client Info		6962		
Dil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
-uel		WC Method	>5	<1.0		
Glycol		WC Method	>5	NEG		
,		VVC IVIELLIOU		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	9		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>5	0		
- itanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	1		
₋ead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	1		
īn	ppm	ASTM D5185m	>15	<1		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	2		
Barium	ppm	ASTM D5185m	10	<1		
Nolybdenum	ppm	ASTM D5185m	100	61		
Manganese	ppm	ASTM D5185m		<1		
//agnesium	ppm	ASTM D5185m	450	864		
Calcium	ppm	ASTM D5185m	3000	1140		
Phosphorus	ppm	ASTM D5185m	1150	955		
Zinc	ppm	ASTM D5185m	1350	1183		
Sulfur	ppm	ASTM D5185m	4250	2960		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3		
Sodium	ppm	ASTM D5185m	>158	5		
Potassium	ppm	ASTM D5185m	>20	2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.5		
Nitration	Abs/cm	*ASTM D7624	>20	8.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9		

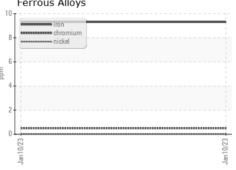


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar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

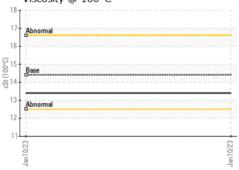
13.4

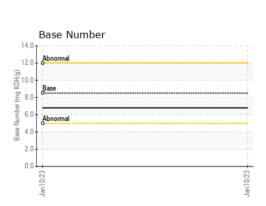


cSt

ASTM D445 14.4

10-	Non-ferrous Metals
8-	copper lead
6.	
udd 4.	
2-	
0-	
	Jan 10/23
	Viscosity @ 100°C







Laboratory Sample No. Lab Number

Unique Number : 10338240

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0759974 : 05768632

Received

: 15 Feb 2023 Diagnosed Test Package : CONST (Additional Tests: TBN)

: 16 Feb 2023 Diagnostician : Wes Davis

US 17202

Apple Valley Waste - Chambersburg Location

Contact: Service Manager

5436 Sunset Pike

Chambersburg, PA

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)

T:

F: