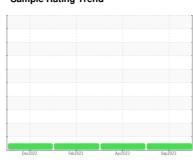


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id F18
Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. 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.

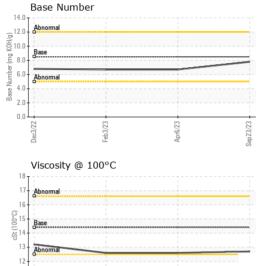
Fluid Condition

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

		Dec202	2 Feb2023	Apr2023 S	pp2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0784020	WC0784005	WC0784007
Sample Date		Client Info		23 Sep 2023	06 Apr 2023	03 Feb 2023
Machine Age	hrs	Client Info		9545	8142	7454
Oil Age	hrs	Client Info		0	495	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	8	7	5
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	<1
Lead	ppm	ASTM D5185m	>45	<1	0	0
Copper	ppm	ASTM D5185m	>85	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	0	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	14	67	32
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	74	78	48
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	757	137	93
Calcium	ppm	ASTM D5185m	3000	1288	2024	2165
Phosphorus	ppm	ASTM D5185m	1150	1021	991	950
Zinc	ppm	ASTM D5185m	1350	1257	1179	1136
Sulfur	ppm	ASTM D5185m	4250	3323	4393	3946
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6	5	4
Sodium	ppm	ASTM D5185m	>158	4	4	2
Potassium	ppm	ASTM D5185m	>20	3	1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.5	8.8	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.4	17.6
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	12.8	11.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.8	6.7	6.7
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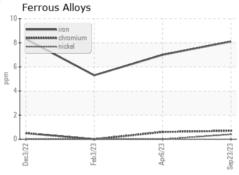
OIL ANALYSIS REPORT

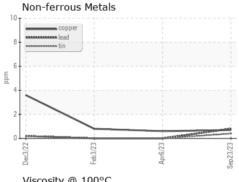


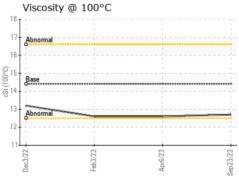
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

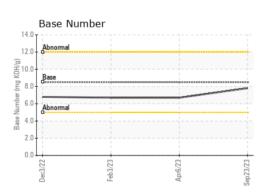
FLUID PROPERTIES		method	ilmit/base		nistory i	nistory2	
Visc @ 100°C	cSt	ASTM D445	14.4	12.7	12.6	12.6	

GRAPHS













Laboratory Sample No. Lab Number Unique Number : 10674833

: WC0784020 : 05968282

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

: 03 Oct 2023 Diagnosed

: 04 Oct 2023

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.

Apple Valley Waste - EHT Location

6626 Delilah Road Egg Harbor Township, NJ US 08234

Contact: Service Manager

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:

F: