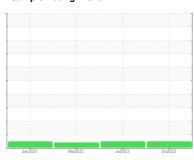


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id F20
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.

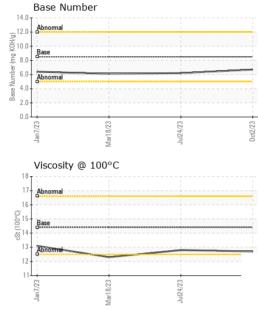
Fluid Condition

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

		Jan202	3 Mar2023	Jul2023 (Dct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0784023	WC0758921	WC0758913
Sample Date		Client Info		02 Oct 2023	24 Jul 2023	18 Mar 2023
Machine Age	hrs	Client Info		8672	8006	7206
Oil Age	hrs	Client Info		666	831	543
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	1.5
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	12	12	9
Chromium	ppm	ASTM D5185m	>4	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	3	2
Lead	ppm	ASTM D5185m	>45	3	2	0
Copper	ppm	ASTM D5185m	>85	4	4	1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	7	24	29
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	76	68	56
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	736	350	97
Calcium	ppm	ASTM D5185m	3000	1370	2009	2192
Phosphorus	ppm	ASTM D5185m	1150	1023	949	950
Zinc	ppm	ASTM D5185m	1350	1295	1164	1155
Sulfur	ppm	ASTM D5185m	4250	3284	3852	3876
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	8	5	6
Sodium	ppm	ASTM D5185m		1	3	2
Potassium	ppm	ASTM D5185m		5	3	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.1	10.7	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	21.5	19.1
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	16.9	13.0
Base Number (BN)	mg KOH/g	ASTM D2896		6.7	6.2	6.1
Dago Harriber (DIV)	mg Normg	, 10 THI DE000	5.0	V.,	0.2	0.1



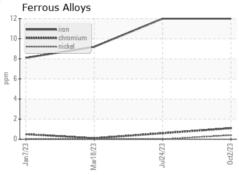
OIL ANALYSIS REPORT

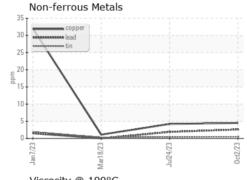


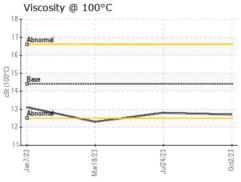
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERT	ΓIES	method	limit/base	current	historv1	historv2

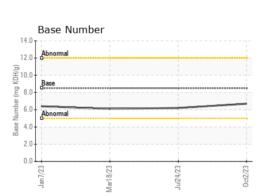
1 LOID 1 1101 LITTIES							
Visc @ 100°C	cSt	ASTM D445	14.4	12.7	12.8	▲ 12.3	

GRAPHS













Laboratory Sample No. Lab Number Unique Number : 10674834

: 05968283

: WC0784023

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

Apple Valley Waste - EHT Location

6626 Delilah Road Egg Harbor Township, NJ US 08234

Contact: Service Manager

T:

F: