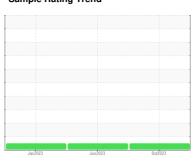


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **22306** Component

Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your 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

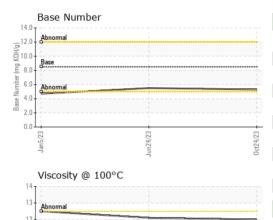
Fluid Condition

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

		Jar	2023	Jun2023 Oct20	23	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0832062	WC05952474	WC0747842
Sample Date		Client Info		24 Oct 2023	24 Jun 2023	05 Jan 2023
Machine Age	mls	Client Info		180388	130000	65327
Oil Age	mls	Client Info		50000	50000	65000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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
Iron	ppm	ASTM D5185m	>100	32	47	77
Chromium	ppm	ASTM D5185m	>20	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	1	1
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	6	13	38
Lead	ppm	ASTM D5185m	>40	<1	1	<1
Copper	ppm	ASTM D5185m	>330	3	6	15
Tin	ppm	ASTM D5185m	>15	<1	2	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	4	3	14
Barium	ppm	ASTM D5185m	10	0	44	0
Molybdenum	ppm	ASTM D5185m	100	71	56	25
Manganese	ppm	ASTM D5185m		<1	2	3
Magnesium	ppm	ASTM D5185m	450	1003	885	757
Calcium	ppm	ASTM D5185m	3000	1269	1259	1420
Phosphorus	ppm	ASTM D5185m	1150	1152	966	800
Zinc	ppm	ASTM D5185m	1350	1417	1193	979
Sulfur	ppm	ASTM D5185m	4250	3038	3256	2862
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	13	15
Sodium	ppm	ASTM D5185m		1	4	4
Potassium	ppm	ASTM D5185m	>20	10	32	97
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	12.9	14.0	13.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.1	27.4	28.2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.2	25.0	25.3
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.3	5.5	4.7



OIL ANALYSIS REPORT

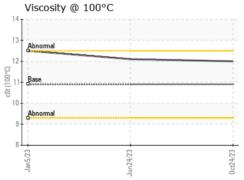


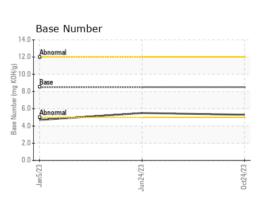
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
ELLID DDODEDI	TIEC	mathad	limit/bass	ourront.	hiotomit	hiotom/2

FLUID PROPER	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	10.9	12.0	12.1	12.5

Ferrous Alloys		
70 - iron		
60 - nonnannan nickel		
50		
30+		
20		
10		
23	523	23
Jan5/23	Jun24/23	0ct24/23

copper 1		
14 - Lead lead		
12tin		
10		
1		
8		
6		
4		
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2 -	and the same of the same of the same of the same of	
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Jan5/23	Jun24/23	
an	124	









Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number : 10836283

: WC0832062 : 06064901

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024 Diagnosed : 19 Jan 2024 Diagnostician : Wes Davis

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)

MID-ATLANTIC TRANSPORT

38 IRONSIDE CT WILLINGBORO, NJ US 08046

Contact: GARY LAWYER gary@midatlantictrans.com T: (609)864-6948

Contact/Location: GARY LAWYER - MIDWIL

F: