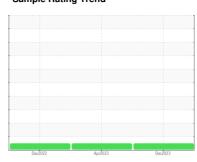


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **22316** Component

Diesel Engine

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

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

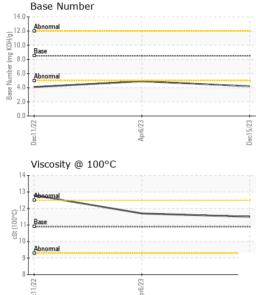
Fluid Condition

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

		Do	2022	Apr2023 Dec20	123	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0832058	WC0784068	WC0747835
Sample Date		Client Info		15 Dec 2023	06 Apr 2023	11 Dec 2022
Machine Age	mls	Client Info		173853	88124	53688
Oil Age	mls	Client Info		50000	50000	53688
Oil Changed		Client Info		Changed	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
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	40	56	124
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	10	19	43
Lead	ppm	ASTM D5185m	>40	<1	0	2
Copper	ppm	ASTM D5185m	>330	3	5	17
Tin	ppm	ASTM D5185m	>15	<1	<1	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	4	7	13
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	72	65	22
Manganese	ppm	ASTM D5185m		<1	2	3
Magnesium	ppm	ASTM D5185m	450	997	915	840
Calcium	ppm	ASTM D5185m	3000	1278	1291	1614
Phosphorus	ppm	ASTM D5185m	1150	1163	1028	815
Zinc	ppm	ASTM D5185m	1350	1426	1239	1076
Sulfur	ppm	ASTM D5185m	4250	2873	3772	3648
CONTAMINANTS		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	15	11	18
Sodium	ppm	ASTM D5185m		1	3	6
Potassium	ppm	ASTM D5185m	>20	16	44	117
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.5	0.7
Nitration	Abs/cm	*ASTM D7624	>20	13.3	11.2	17.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.2	22.5	34.2
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.6	20.3	34.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.2	4.9	4.1



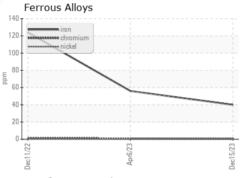
OIL ANALYSIS REPORT

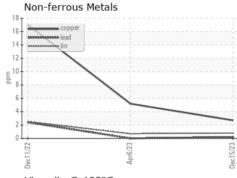


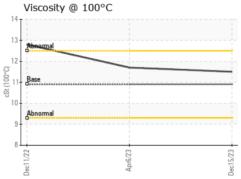
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

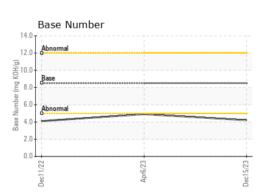
FLUID PROPERTIES		memod			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	10.9	11.5	11.7	12.8

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10836280 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0832058 : 06064898

Recieved

: 18 Jan 2024 Diagnosed : 21 Jan 2024 Diagnostician : Don Baldridge

US 08046 Contact: GARY LAWYER gary@midatlantictrans.com T: (609)864-6948

MID-ATLANTIC TRANSPORT

38 IRONSIDE CT

WILLINGBORO, NJ

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)

Report Id: MIDWIL [WUSCAR] 06064898 (Generated: 01/21/2024 14:13:05) Rev: 1

Contact/Location: GARY LAWYER - MIDWIL