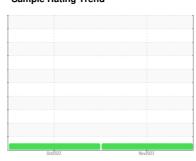


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **22305** Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

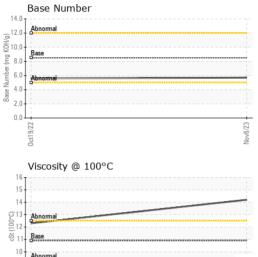
Fluid Condition

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

			0x2022	Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0832054	WC0699805	
Sample Date		Client Info		08 Nov 2023	19 Oct 2022	
Machine Age	mls	Client Info		158452	50048	
Oil Age	mls	Client Info		0	50048	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.3	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	21	70	
Chromium	ppm	ASTM D5185m	>20	0	1	
Nickel	ppm	ASTM D5185m	>4	0	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	5	40	
Lead	ppm	ASTM D5185m	>40	<1	2	
Copper	ppm	ASTM D5185m		1	15	
Tin	ppm	ASTM D5185m	>15	<1	2	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	21	14	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	4	18	
Manganese	ppm	ASTM D5185m	450	<1	2	
Magnesium	ppm	ASTM D5185m	450	685	822	
Calcium	ppm	ASTM D5185m	3000	1367	1550	
Phosphorus Zinc	ppm	ASTM D5185m	1150 1350	793 916	780 1053	
Sulfur	ppm ppm	ASTM D5185m	4250	3080	3656	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm		>25	13	18	
Sodium	ppm	ASTM D5185m		2	5	
Potassium	ppm	ASTM D5185m	>20	14	100	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	10.4	13.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	29.6	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	24.8	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.7	5.6	
. ,	0					



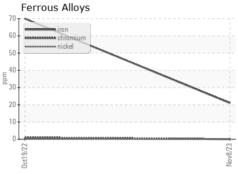
OIL ANALYSIS REPORT

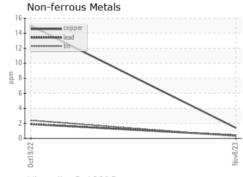


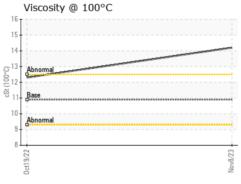
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

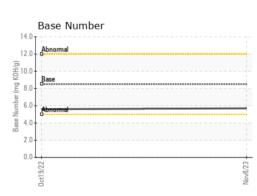
FLUID PROPER	THES	memod			riistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	10.9	14.2	12.3	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10836286

: WC0832054 : 06064904 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024 Diagnosed : 22 Jan 2024 Diagnostician : Angela Borella

MID-ATLANTIC TRANSPORT 38 IRONSIDE CT

WILLINGBORO, NJ US 08046 Contact: GARY LAWYER

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

* - 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)