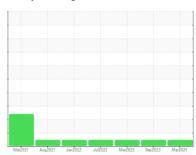


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
22103
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

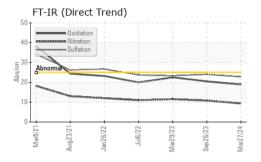
Fluid Condition

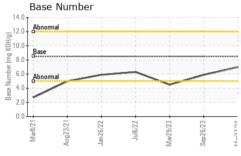
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

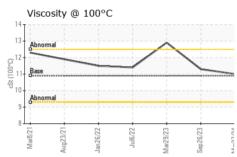
		MarŽ021	Aug2021 Jan2022	Jul2022 Mar2023 Sep 2023	Mar2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0901340	WC0832045	WC0784071
Sample Date		Client Info		27 Mar 2024	26 Sep 2023	29 Mar 2023
Machine Age	mls	Client Info		442596	395661	346723
Oil Age	mls	Client Info		50000	0	50000
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		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	35	25	27
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	5	4	5
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	2	2	3
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	5	7	9
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	74	66	64
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	980	1001	894
Calcium	ppm	ASTM D5185m		1430	1274	1279
Phosphorus	ppm	ASTM D5185m	1150	1091	1072	1046
Zinc	ppm	ASTM D5185m	1350	1344	1398	1280
Sulfur	ppm	ASTM D5185m	4250	3718	3110	3391
CONTAMINANTS	3	method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	9	9	6
Sodium	ppm	ASTM D5185m		2	<1	2
Potassium	ppm	ASTM D5185m	>20	6	5	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.3	10.8	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	24.0	23.3
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	20.5	22.5
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.0	5.9	4.5

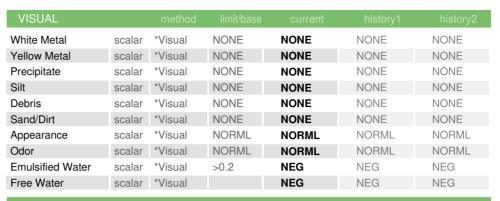


OIL ANALYSIS REPORT



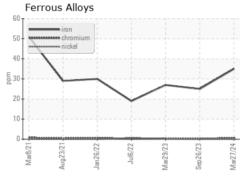


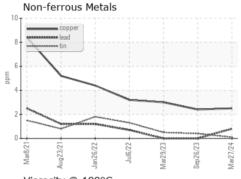


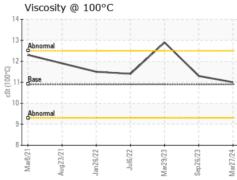


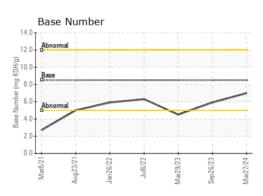
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	10.9	11.0	11.3	12.9	

GRAPHS













Certificate 12367

Sample No.

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0901340 Lab Number : 06176933 Unique Number : 11022986

Received : 13 May 2024 **Tested** Diagnosed

: 14 May 2024 : 14 May 2024 - Wes Davis MID-ATLANTIC TRANSPORT

38 IRONSIDE CT WILLINGBORO, NJ US 08046 Contact: GARY LAWYER

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

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)