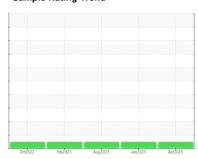


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
22321
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.

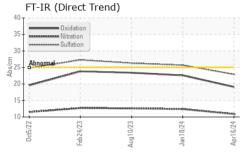
Fluid Condition

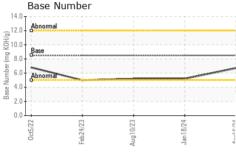
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

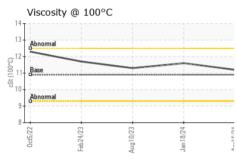
		0ct2022	Feb 2023	Aug2023 Jan2024	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0901343	WC0832066	WC0832078
Sample Date		Client Info		16 Apr 2024	18 Jan 2024	10 Aug 2023
Machine Age	mls	Client Info		267334	229107	173157
Oil Age	mls	Client Info		50000	50000	50000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	V	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	50	49
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	5	9	11
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	5	5
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	4	9	5
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	74	74	74
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	934	968	1008
Calcium	ppm	ASTM D5185m	3000	1288	1252	1342
Phosphorus	ppm	ASTM D5185m	1150	1030	1022	1128
Zinc	ppm	ASTM D5185m	1350	1272	1265	1394
Sulfur	ppm	ASTM D5185m	4250	3555	2967	3591
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	13	14
Sodium	ppm	ASTM D5185m		2	2	2
Potassium	ppm	ASTM D5185m	>20	6	10	14
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.7	0.6
Nitration	Abs/cm	*ASTM D7624		10.9	12.4	12.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9	25.7	26.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.1	22.6	23.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.7	5.2	5.2

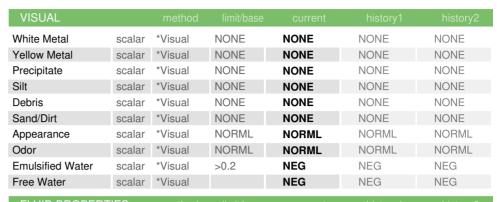


OIL ANALYSIS REPORT

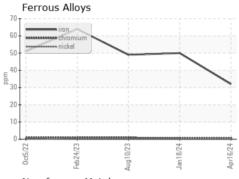


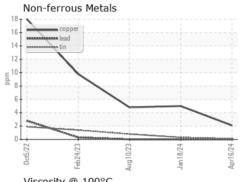


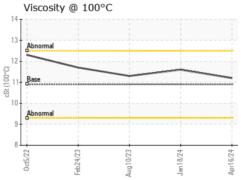


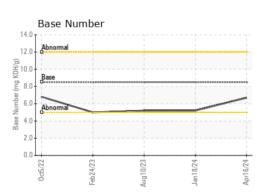


FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	10.9	11.2	11.6	11.3













Certificate 12367

Laboratory Sample No. Lab Number : 06176935

: WC0901343 Unique Number : 11022988 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 May 2024 **Tested**

: 14 May 2024 Diagnosed : 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)