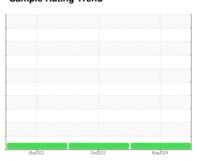


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id BLUE BIRD 242

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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.

	Mw2022 0x2022 Mw2024					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RW0004980	RW0003813	RW0003866
Sample Date		Client Info		07 May 2024	13 Oct 2022	26 Mar 2022
Machine Age	mls	Client Info		72000	36532	24000
Oil Age	mls	Client Info		12000	12000	12000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	1	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	25	28	36
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	0
Aluminum	ppm	ASTM D5185m	>20	8	14	21
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m		2	2	9
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	0	3	4
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	63	58	54
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	450	993	902	884
Calcium	ppm	ASTM D5185m	3000	1226	1149	1104
Phosphorus	ppm	ASTM D5185m	1150 1350	1062	1011	948 1158
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	4250	1272 3550	1229 3564	2285
CONTAMINANTS	ppm	method	limit/base			
				current	history1	history2
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>25 >158	5	14 <1	9
Potassium	ppm			3 10	33	50
	ppm	ASTM D5185m				
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.4	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	20.9	19.1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	16.3	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.64	7.94	8.06



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

Lab Number : 06179007 Unique Number : 11030333 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RW0004980 Received : 14 May 2024

0ct13/22

Tested : 15 May 2024 Diagnosed : 15 May 2024 - Wes Davis

0.0

May7/24 -

WEST BRANCH, MI US 48661 Contact: BUTCH HART hartb@wbrc.k12.mi.us

T: (989)343-2240

F: (989)343-2249

224 THOMAS

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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: WESWESMI [WUSCAR] 06179007 (Generated: 05/15/2024 13:28:24) Rev: 1

Contact/Location: BUTCH HART - WESWESMI

WEST BRANCH/ROSE CITY SCHOOLS