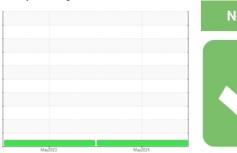


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id BLUE BIRD 247

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.

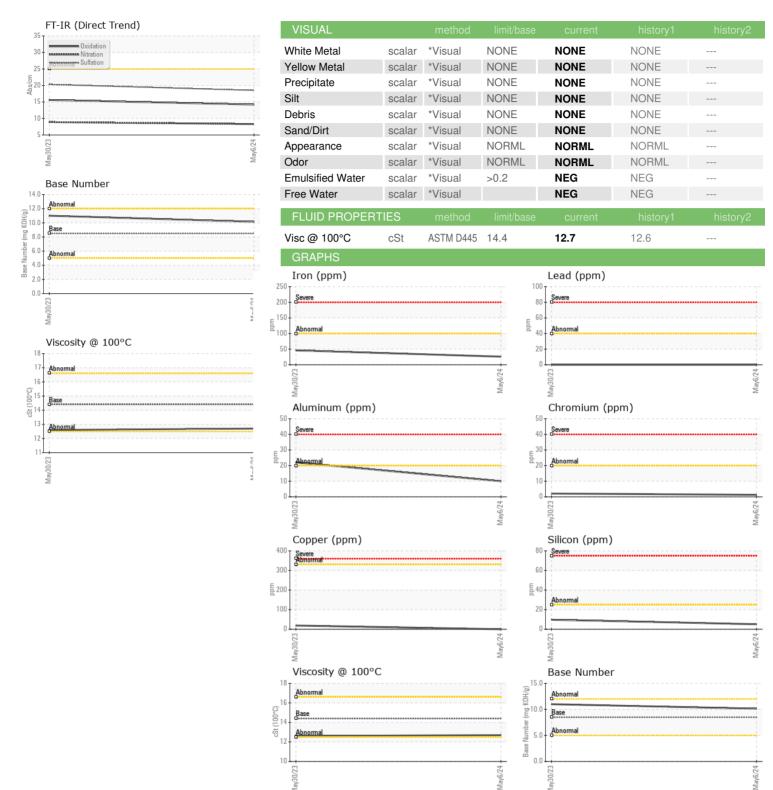
Fluid Condition

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

			May2023	May2024		
SAMPLE INFORM	MATION	method				history2
Sample Number		Client Info		RW0004979	RW0004208	
Sample Date		Client Info		06 May 2024	30 May 2023	
Machine Age	mls	Client Info		48000	24000	
Oil Age	mls	Client Info		12000	12000	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	J	method	limit/base	current	history1	history2
	•				· ·	motoryz
Fuel Water		WC Method	>5	<1.0 NEG	<1.0 NEG	
		WC Method	>0.2	NEG	NEG	
Glycol				NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	26	46	
Chromium	ppm	ASTM D5185m	>20	1	2	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	10	22	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>330	0	19	
Tin	ppm	ASTM D5185m	>15	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	7	9	
Barium	ppm	ASTM D5185m	10	1	0	
Molybdenum	ppm	ASTM D5185m	100	57	56	
Manganese	ppm	ASTM D5185m		<1	2	
Magnesium	ppm	ASTM D5185m	450	857	884	
Calcium	ppm	ASTM D5185m	3000	1088	1177	
Phosphorus	ppm	ASTM D5185m	1150	1025	960	
Zinc	ppm	ASTM D5185m	1350	1165	1180	
Sulfur	ppm	ASTM D5185m	4250	3306	3427	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	10	
Sodium	ppm	ASTM D5185m	>158	1	3	
Potassium	ppm	ASTM D5185m	>20	16	52	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	20.3	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	15.6	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	10.14	11.00	



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

Lab Number : 06177877 Unique Number : 11029203

: RW0004979 Test Package : MOB 2

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

Tested : 14 May 2024 Diagnosed

: 14 May 2024 - Wes Davis

WEST BRANCH/ROSE CITY SCHOOLS 224 THOMAS WEST BRANCH, MI US 48661

Contact: BUTCH HART hartb@wbrc.k12.mi.us T: (989)343-2240

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) F: (989)343-2249 Contact/Location: BUTCH HART - WESWESMI