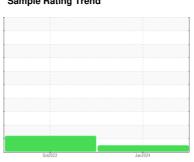


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **244**

Component **Diesel Engine**

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

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RW0004984	RW0003814	
Sample Date		Client Info		25 Jan 2024	05 Oct 2022	
Machine Age	mls	Client Info		48000	12000	
Oil Age	mls	Client Info		12000	12000	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ATTENTION	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<u>^</u> 2.0	
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	20	95	
Chromium	ppm	ASTM D5185m	>20	1	3	
Nickel	ppm	ASTM D5185m	>4	0	<1	
Titanium	ppm	ASTM D5185m	24	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	7	31	
Lead	ppm	ASTM D5185m	>40	0	2	
Copper	ppm	ASTM D5185m	>330	2	77	
Tin	ppm	ASTM D5185m	>15	<1	1	
Vanadium		ASTM D5185m	>10	0	1	
Cadmium	ppm	ASTM D5185m		0	0	
	ppm	AOTIVI DOTOSIII				
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	5	21	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	59	47	
Manganese	ppm	ASTM D5185m		<1	6	
Magnesium	ppm	ASTM D5185m	450	863	821	
Calcium	ppm	ASTM D5185m	3000	1100	1277	
Phosphorus	ppm	ASTM D5185m	1150	915	637	
Zinc	ppm	ASTM D5185m	1350	1175	895	
Sulfur	ppm	ASTM D5185m	4250	2948	2256	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	32	
Sodium	ppm	ASTM D5185m	>158	0	8	
Potassium	ppm	ASTM D5185m	>20	14	94	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.8	
Nitration	Abs/cm	*ASTM D7624	>20	7.8	13.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	24.9	
						histow O
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	24.6	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.96	7.12	



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: 06074149 : 10856240 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RW0004984 : 30 Jan 2024 Recieved Diagnosed

: 31 Jan 2024 : Wes Davis Diagnostician

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)

WEST BRANCH/ROSE CITY SCHOOLS

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