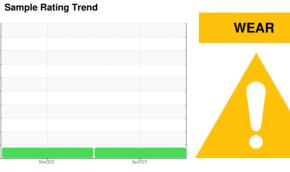


OIL ANALYSIS REPORT



Machine Id **CT-09** Component
Diesel Engine

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

The aluminum level is abnormal. All other 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.

			Mar2022	Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0789622	WC0375108	
Sample Date		Client Info		29 Apr 2024	15 Mar 2022	
Machine Age	hrs	Client Info		0	1034	
Oil Age	hrs	Client Info		0	250	
Oil Changed		Client Info		Changed	N/A	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
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	60	58	
Chromium	ppm	ASTM D5185m	>20	2	3	
Nickel	ppm	ASTM D5185m	>4	1	4	
Titanium	ppm	ASTM D5185m		<1	7	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>20	<u>^</u> 29	<u>^</u> 23	
Lead	ppm	ASTM D5185m	>40	4	1	
Copper	ppm	ASTM D5185m	>330	49	5	
Tin	ppm	ASTM D5185m	>15	4	1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	255	181	
Barium	ppm	ASTM D5185m	10	<1	0	
Molybdenum	ppm	ASTM D5185m	100	68	69	
Manganese	ppm	ASTM D5185m		<1	1	
Magnesium	ppm	ASTM D5185m	450	360	660	
Calcium	ppm	ASTM D5185m	3000	1845	1541	
Phosphorus	ppm	ASTM D5185m	1150	891	696	
Zinc	ppm	ASTM D5185m	1350	1027	811	
Sulfur	ppm	ASTM D5185m	4250	3156	2457	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	6	
Sodium	ppm	ASTM D5185m		2	4	
Potassium	ppm	ASTM D5185m	>20	5	4	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	21.9	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	15.9	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.7	9.3	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06174870 Unique Number : 11020923

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0789622 Received

Diagnosed Test Package : FLEET

: 09 May 2024 Tested : 10 May 2024

: 13 May 2024 - Sean Felton

ARABI, LA US 70032 Contact: CURTIS BLANK cblank@associatedterminals.com

ASSOCIATED TERMINALS - FORKLIFT

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)

Report Id: ASSARA [WUSCAR] 06174870 (Generated: 05/13/2024 14:27:41) Rev: 1

Contact/Location: CURTIS BLANK - ASSARA

T:

F: