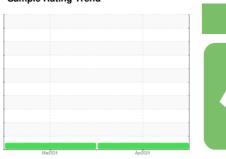


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

FREIGHTLINER 1233

Diesel Engine

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

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

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

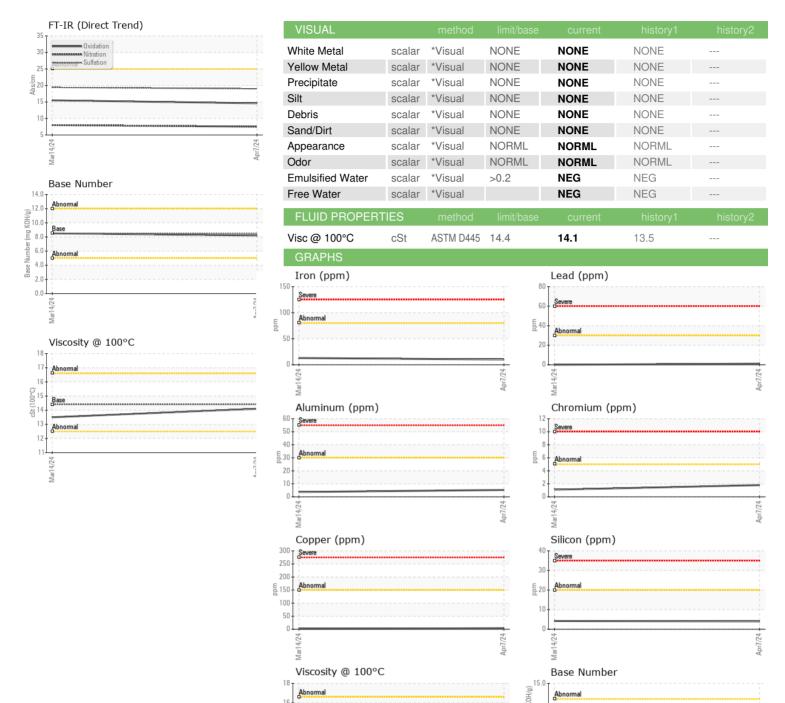
Fluid Condition

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

			Mar2024	Apr2024		
				.,		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0906147	WC0906088	
Sample Date		Client Info		07 Apr 2024	14 Mar 2024	
Machine Age	mls	Client Info		131904	100866	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
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	>80	10	13	
Chromium	ppm	ASTM D5185m	>5	2	1	
Nickel	ppm	ASTM D5185m	>2	1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>30	5	4	
Lead	ppm	ASTM D5185m	>30	1	0	
Copper	ppm	ASTM D5185m	>150	4	1	
Tin	ppm	ASTM D5185m	>5	1	0	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	1	0	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	56	64	
Manganese	ppm	ASTM D5185m		1	<1	
Magnesium	ppm	ASTM D5185m	450	888	1091	
Calcium	ppm	ASTM D5185m	3000	1056	1224	
Phosphorus	ppm	ASTM D5185m	1150	958	1143	
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1350 4250	1194 3232	1369 3678	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>20	4	4	
Sodium	ppm	ASTM D5185m	>158	4 <1	4 <1	
Potassium	ppm	ASTM D5185m	>20	11	6	
INFRA-RED	LP	method	limit/base	current	history1	history2
	0/	*ASTM D7844			0.5	· ·
Soot % Nitration	% Abs/cm	*ASTM D7844	>3 >20	0.5 7.5	8.0	
Sulfation	Abs/.1mm	*ASTM D7624	>20	7.5 19.0	19.4	
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	15.5	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.2	8.5	



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

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

1000

: WC0906147 Lab Number : 06152794 Unique Number : 10982872 Test Package : MOB 1 (Additional Tests: TBN)

Tested

Received : 18 Apr 2024 Diagnosed

: 18 Apr 2024 : 18 Apr 2024 - Wes Davis

FAYETTEVILLE, NC US 28301 Contact: BRYAN VANNIMAN bryanvanniman@fayblock.com T: (800)326-9198

161 BUILDERS BLVD

CONCRETE SERVICE CO - FAY BLOCK

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)