

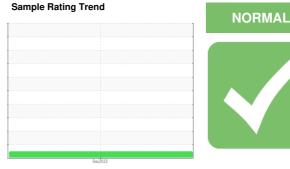
OIL ANALYSIS REPORT

FREIGHTLINER 4121

Component

Diesel Engine

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



Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

Fluid Condition

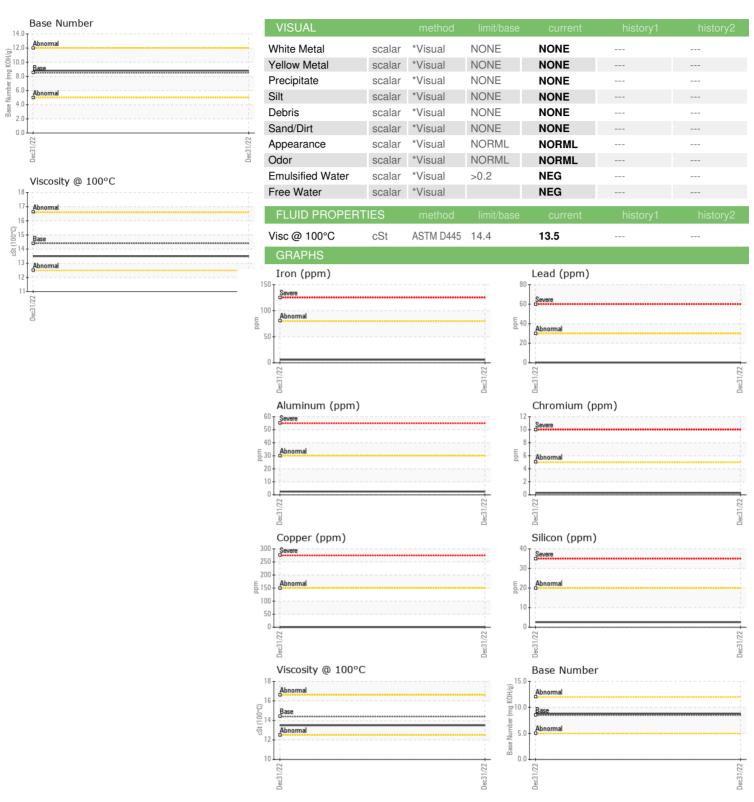
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

				Dec2022		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0744200		
Sample Date		Client Info		31 Dec 2022		
Machine Age	mls	Client Info		66627		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	6		
Chromium	ppm	ASTM D5185m	>5	<1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	2		
Lead	ppm	ASTM D5185m	>30	<1		
Copper	ppm	ASTM D5185m	>150	<1		
Tin	ppm	ASTM D5185m	>5	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	0		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	58		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	450	925		
Calcium	ppm	ASTM D5185m	3000	1048		
Phosphorus	ppm	ASTM D5185m	1150	1047		
Zinc	ppm	ASTM D5185m	1350	1217		
Sulfur	ppm	ASTM D5185m	4250	3378		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3		
Sodium	ppm	ASTM D5185m	>158	0		
Potassium	ppm	ASTM D5185m	>20	1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	8.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9		
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.8		

Contact/Location: ROB CLARKE - INTCHE



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number **Unique Number**

: 06027298 : 10777089

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0744200 Received Diagnosed

: 08 Dec 2023 Diagnostician : Wes Davis

: 07 Dec 2023

Test Package : MOB 1 (Additional Tests: TBN) 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.

INTERSTATE WASTE-CHESTER

89 BLACK MEADOW RD CHESTER, NY US 10918

Contact: ROB CLARKE rclarke@interstatewaste.com

T: F: (845)572-3301

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: INTCHE [WUSCAR] 06027298 (Generated: 12/08/2023 13:07:15) Rev: 1

Contact/Location: ROB CLARKE - INTCHE