

OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



PETERBILT 433000

Component

Natural Gas Engine

NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

The aluminum level is abnormal.

Contamination

Sodium and/or potassium levels are high.

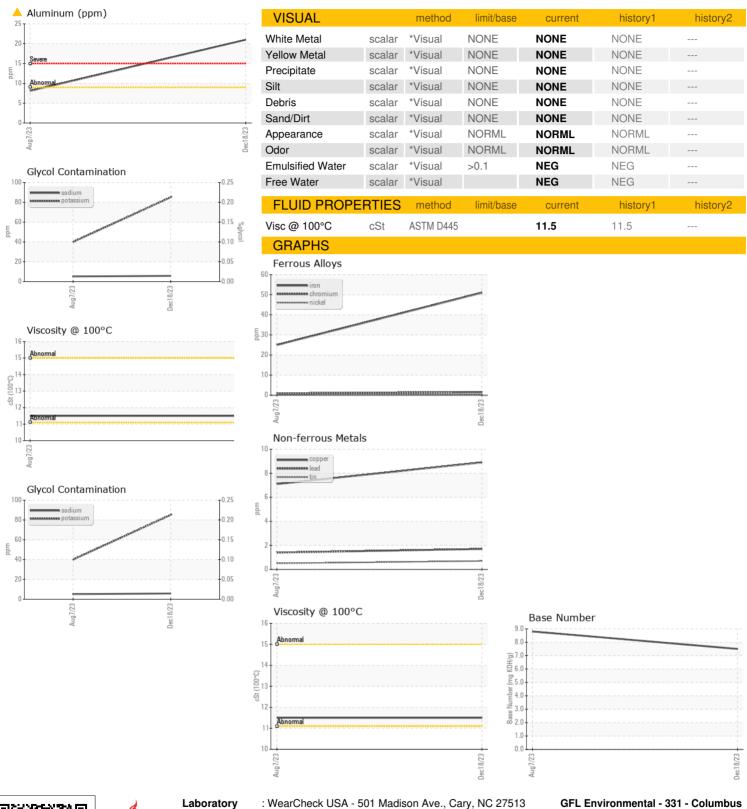
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

				<u> </u>		
			Aug2023	Dec2023		
SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0087499	GFL0087532	
Sample Date		Client Info		18 Dec 2023	07 Aug 2023	
Machine Age	hrs	Client Info		220	55	
Oil Age	hrs	Client Info		220	55	
Oil Changed		Client Info		Changed	N/A	
Sample Status				ABNORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	51	25	
Chromium	ppm	ASTM D5185m	>4	2	<1	
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>9	<u>^</u> 21	8	
Lead	ppm	ASTM D5185m	>30	2	1	
Copper	ppm	ASTM D5185m	>35	9	7	
Tin	ppm	ASTM D5185m	>4	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		30	43	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		51	49	
Manganese	ppm	ASTM D5185m		4	4	
Magnesium	ppm	ASTM D5185m		731	773	
Calcium	ppm	ASTM D5185m		1099	1164	
Phosphorus	ppm	ASTM D5185m		715	700	
Zinc	ppm	ASTM D5185m		836	854	
Sulfur	ppm	ASTM D5185m		2536	2640	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	96	92	
Sodium	ppm	ASTM D5185m		6	5	
Potassium	ppm	ASTM D5185m	>20	<u></u> ▲ 85	40	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	9.6	7.2	
Sulfation	Abs/.1mm	*ASTM D7415		20.0	18.9	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	16.1	
Base Number (BN)	mg KOH/g	ASTM D2896		7.5	8.8	
Dasc Hamber (DIV)	ing Northy	7.0 TWI D2000		7.0	0.0	



OIL ANALYSIS REPORT







Certificate L2367

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

: GFL0087499 : 06039039

: 10794268

: 19 Dec 2023 Recieved Diagnosed

: 21 Dec 2023 : Jonathan Hester Diagnostician

Test Package : FLEET (Additional Tests: Glycol)

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)

GFL Environmental - 331 - Columbus

180 Ada Moore Rd Columbus, NC US 28722

Contact: Matt Segars matt.segars@gflenv.com T: (800)207-6618

F: (252)617-2494