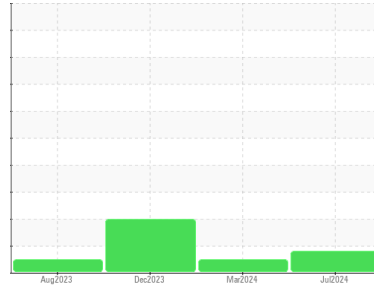




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
PETERBILT 433000

Component
Natural Gas Engine
 Fluid
 {not provided} (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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 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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0109616	GFL0087484	GFL0087499
Sample Date	Client Info		12 Jul 2024	06 Mar 2024	18 Dec 2023
Machine Age	hrs	Client Info	708	319	220
Oil Age	hrs	Client Info	488	99	220
Oil Changed	Client Info		N/A	Not Changd	Changed
Sample Status			ABNORMAL	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	7	6	51
Chromium	ppm	ASTM D5185m >4	1	<1	2
Nickel	ppm	ASTM D5185m >2	0	0	<1
Titanium	ppm	ASTM D5185m	<1	0	<1
Silver	ppm	ASTM D5185m >3	<1	0	0
Aluminum	ppm	ASTM D5185m >9	▲ 14	2	▲ 21
Lead	ppm	ASTM D5185m >30	0	0	2
Copper	ppm	ASTM D5185m >35	1	<1	9
Tin	ppm	ASTM D5185m >4	<1	0	<1
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	41	51	30
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	47	48	51
Manganese	ppm	ASTM D5185m	<1	<1	4
Magnesium	ppm	ASTM D5185m	562	762	731
Calcium	ppm	ASTM D5185m	1473	1234	1099
Phosphorus	ppm	ASTM D5185m	763	703	715
Zinc	ppm	ASTM D5185m	905	872	836
Sulfur	ppm	ASTM D5185m	2395	2434	2536

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	8	8	96
Sodium	ppm	ASTM D5185m	<1	4	6
Potassium	ppm	ASTM D5185m >20	39	4	▲ 85

INFRA-RED

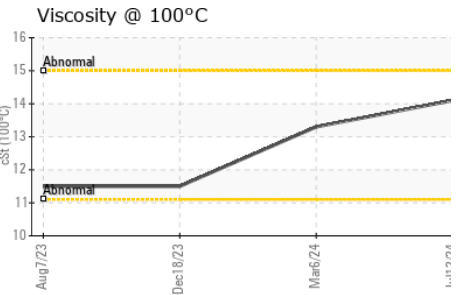
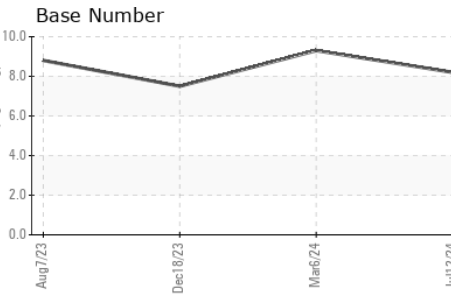
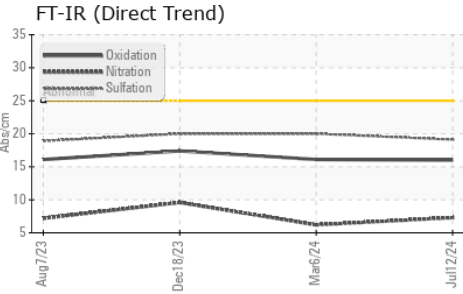
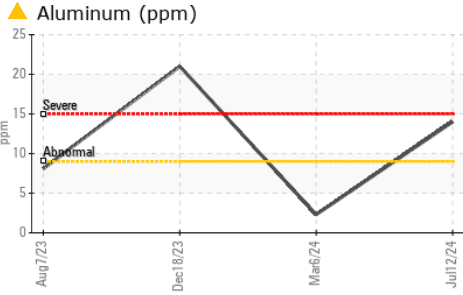
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	7.3	6.2	9.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.1	20.0	20.0

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	16.0	16.1	17.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.2	9.3	7.5



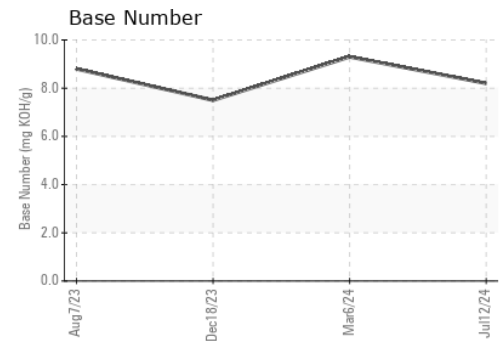
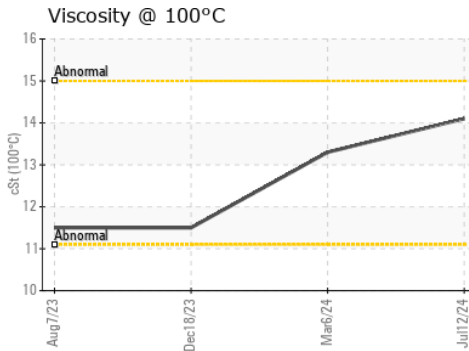
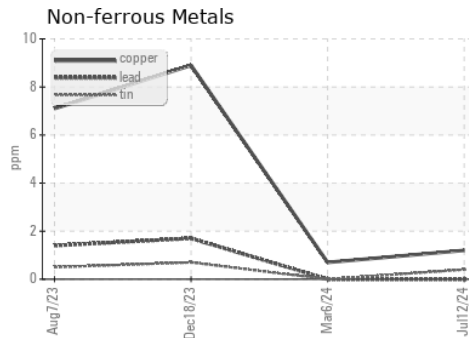
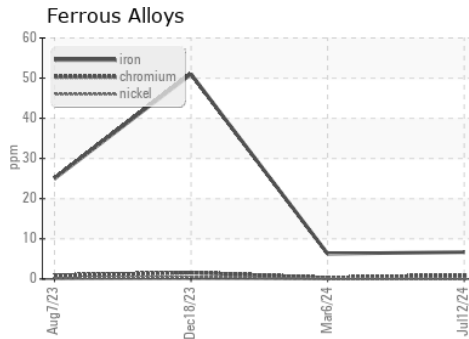
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.1	13.3	11.5

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0109616
Lab Number : 06239858
Unique Number : 11128692
Test Package : FLEET

Received : 18 Jul 2024
Tested : 18 Jul 2024
Diagnosed : 19 Jul 2024 - Don Baldrige

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

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)