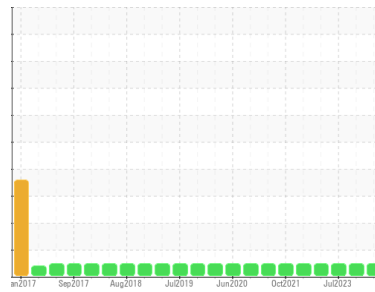




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
11273 ISUZU NPR

Component
Diesel Engine

Fluid
CHEVRON DELO 400 SDE SAE 15W40 (10 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Requested resample.)

Wear

All 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		GFL0117428	GFL0089350	GFL0089308
Sample Date	Client Info		03 Jun 2024	10 Aug 2023	21 Jul 2023
Machine Age	mls	Client Info	255026	232983	230497
Oil Age	mls	Client Info	22043	0	31364
Oil Changed	Client Info		Not Changed	Changed	Not Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	23	28	23
Chromium	ppm	ASTM D5185m >20	<1	0	<1
Nickel	ppm	ASTM D5185m >4	0	0	0
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m >3	0	<1	0
Aluminum	ppm	ASTM D5185m >20	4	2	2
Lead	ppm	ASTM D5185m >40	<1	2	<1
Copper	ppm	ASTM D5185m >330	3	2	1
Tin	ppm	ASTM D5185m >15	1	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	3	3
Barium	ppm	ASTM D5185m	<1	2	0
Molybdenum	ppm	ASTM D5185m	60	71	65
Manganese	ppm	ASTM D5185m	1	<1	<1
Magnesium	ppm	ASTM D5185m	818	909	965
Calcium	ppm	ASTM D5185m	1286	1237	1140
Phosphorus	ppm	ASTM D5185m 760	985	1034	1022
Zinc	ppm	ASTM D5185m 800	1132	1254	1253
Sulfur	ppm	ASTM D5185m 3000	3102	3165	3556

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	6	3	4
Sodium	ppm	ASTM D5185m	15	0	2
Potassium	ppm	ASTM D5185m >20	28	1	<1

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.1	1.6	1.3
Nitration	Abs/cm	*ASTM D7624 >20	11.4	13.0	11.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.0	23.7	22.2

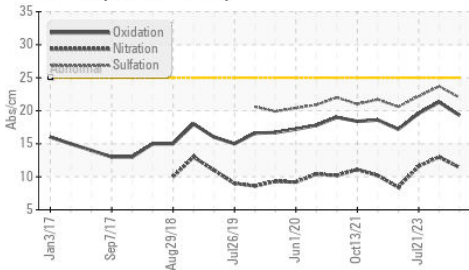
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	19.3	21.3	19.6
Base Number (BN)	mg KOH/g	ASTM D2896 10	7.1	8.0	8.5

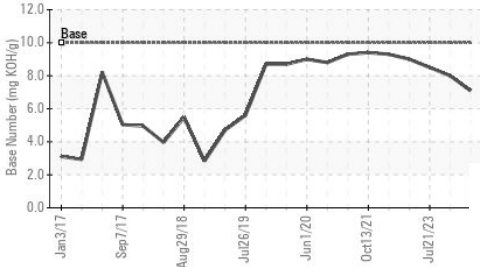


OIL ANALYSIS REPORT

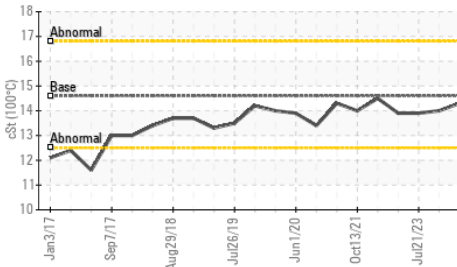
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

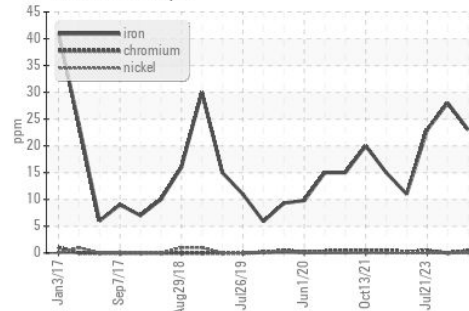


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

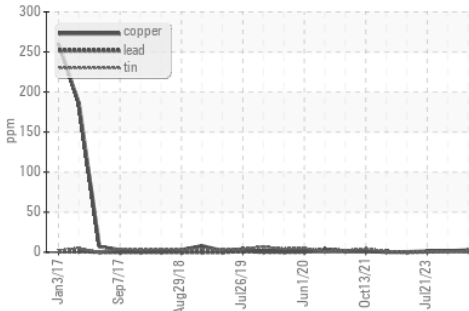
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.6	14.3	14.0

GRAPHS

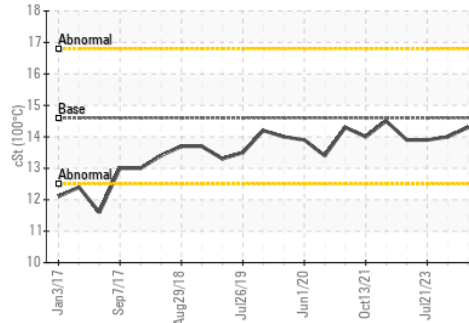
Ferrous Alloys



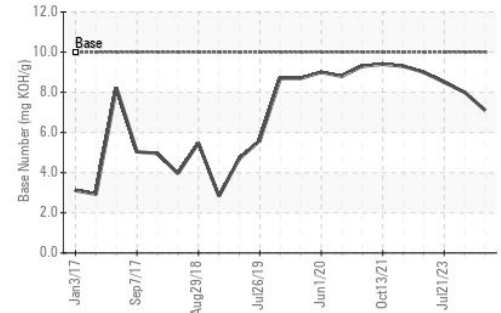
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0117428
Lab Number : 06199813
Unique Number : 11061936
Test Package : FLEET

Received : 05 Jun 2024
Tested : 05 Jun 2024
Diagnosed : 07 Jun 2024 - Sean Felton

GFL Environmental - 001 - Raleigh(CNG)
 3741 Conquest Drive
 Garner, NC
 US 27529

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)

Contact: Craig Johnson
 craig.johnson@gflenv.com

T: (919)662-7100

F: (919)662-7130