

Sample No:

Oil Type:

SAMPLE INFORMATION

Sample Number	GFL0001185	GFLI-269218	GFLI-823018	GFLI-F61982
Sample Date	09 Dec 2019	24 Dec 2018	14 May 2018	08 Nov 2017
Machine Hours	7458	5499	10633	2990
Oil Hours	0	2500	10633	2500
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	SEVERE	NORMAL	ABNORMAL

Contact:

T:

F:

OIL CONDITION

Visc @ 40°C	cSt	▲ 52.1	---	---	---
Visc @ 100°C	cSt	---	7.7	6.9	7.3
Acid Number (AN)	mg KOH/g	■ 0.264	■ 0.37	■ 0.35	■ 0.31

Diagnosis

CONTAMINATION

Particles >4µm		▲ 78468	---	---	---
Particles >6µm		■ 785	---	---	---
Particles >14µm		■ 44	---	---	---
ISO 4406:1999 (c)		23/17/13	---	---	---
Silicon	ppm	▲ 26	▲ 25	■ 0	■ 15
Sodium	ppm	■ 3	■ 3	■ 1	■ 2
Potassium	ppm	■ 4	■ 1	■ 1	■ 3

WEAR METALS

Iron	ppm	▲ 31	■ 35	■ 5	▲ 24
Copper	ppm	■ 9	■ 9	■ 3	■ 8
Lead	ppm	■ <1	■ 2	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	▲ 12	▲ 12	■ 1	■ 7
Chromium	ppm	▲ 12	▲ 15	■ 3	▲ 10
Molybdenum	ppm	■ <1	■ 3	■ 1	■ 3
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 1	0	0	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	■ 156	■ 166	■ 93	■ 134
Magnesium	ppm	■ 20	■ 23	■ 12	■ 19
Zinc	ppm	■ 403	■ 441	■ 364	■ 379
Phosphorus	ppm	■ 350	■ 353	■ 297	■ 312
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 14	■ 14	■ 7	■ 15

Depot:

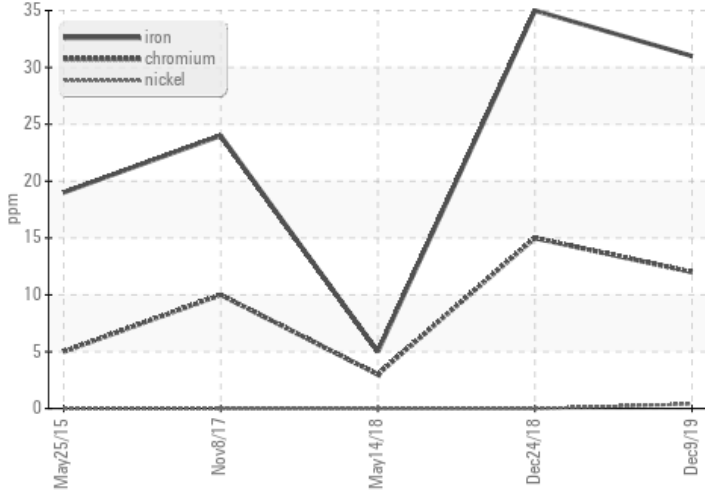
Unique No:

Signed:

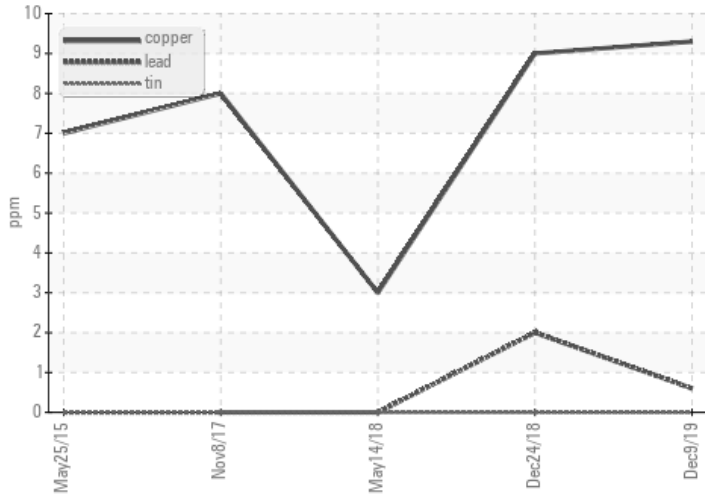
Report Date:

GRAPHS

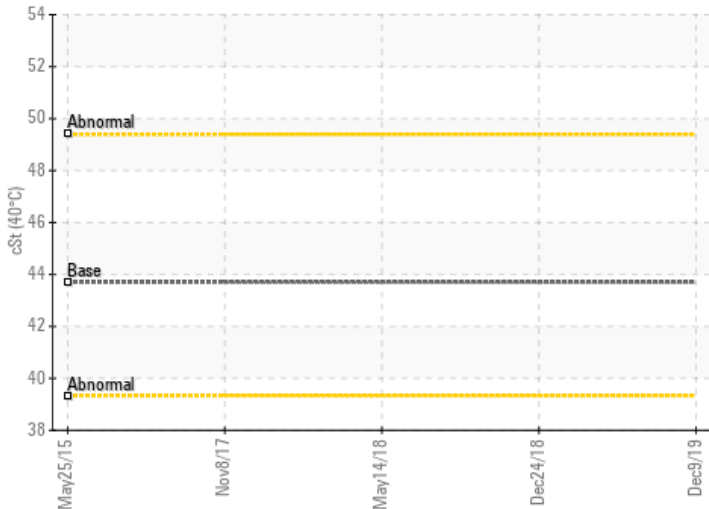
▲ Ferrous Alloys



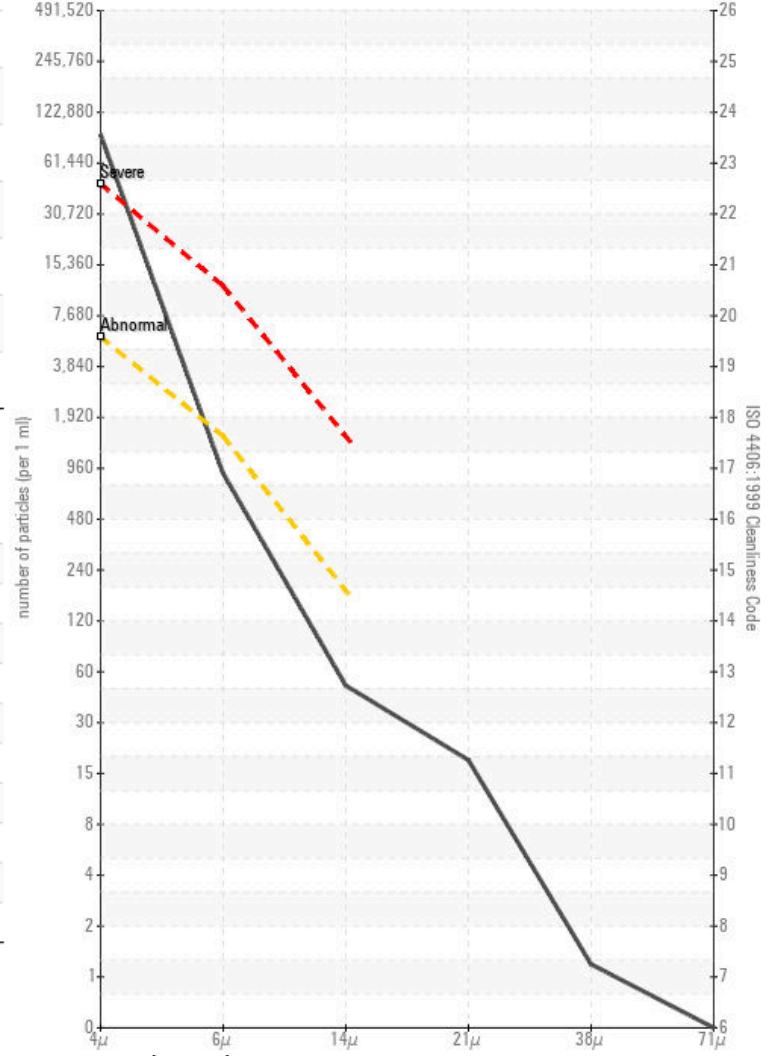
Non-ferrous Metals



▲ Viscosity @ 40°C



▲ Particle Count



Acid Number

