



OIL ANALYSIS REPORT



Machine Id
OR938
 Component
Hydraulic System
 Fluid
CAT TDTO 10W (180 LTR)

Sample Rating Trend



VISUAL METAL



DIAGNOSIS

Recommendation

We advise that you check for visible metal particles in the oil. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Wear

Light concentration of visible metal present.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0124533	---	---
Sample Date	Client Info	26 Jun 2024	---	---
Machine Age	hrs Client Info	11423	---	---
Oil Age	hrs Client Info	1000	---	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		MARGINAL	---	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >20	5	---	---
Chromium	ppm ASTM D5185(m) >10	5	---	---
Nickel	ppm ASTM D5185(m) >10	<1	---	---
Titanium	ppm ASTM D5185(m)	0	---	---
Silver	ppm ASTM D5185(m)	0	---	---
Aluminum	ppm ASTM D5185(m) >10	<1	---	---
Lead	ppm ASTM D5185(m) >10	<1	---	---
Copper	ppm ASTM D5185(m) >75	3	---	---
Tin	ppm ASTM D5185(m) >10	0	---	---
Antimony	ppm ASTM D5185(m)	0	---	---
Vanadium	ppm ASTM D5185(m)	0	---	---
Beryllium	ppm ASTM D5185(m)	0	---	---
Cadmium	ppm ASTM D5185(m)	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	4	---	---
Barium	ppm ASTM D5185(m)	<1	---	---
Molybdenum	ppm ASTM D5185(m)	0	---	---
Manganese	ppm ASTM D5185(m)	0	---	---
Magnesium	ppm ASTM D5185(m)	3	---	---
Calcium	ppm ASTM D5185(m) 2980	522	---	---
Phosphorus	ppm ASTM D5185(m) 1100	707	---	---
Zinc	ppm ASTM D5185(m) 1270	904	---	---
Sulfur	ppm ASTM D5185(m)	1687	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	2	---	---
Sodium	ppm ASTM D5185(m)	1	---	---
Potassium	ppm ASTM D5185(m) >20	<1	---	---

FLUID CLEANLINESS

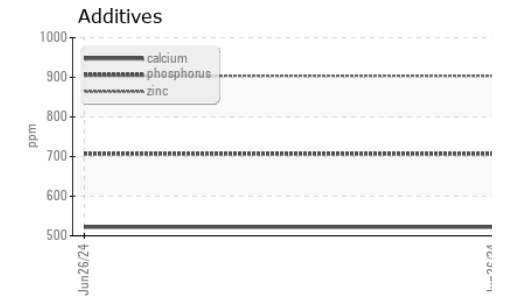
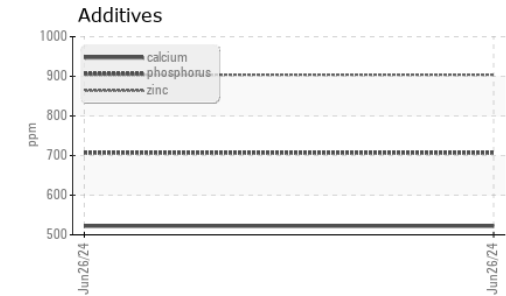
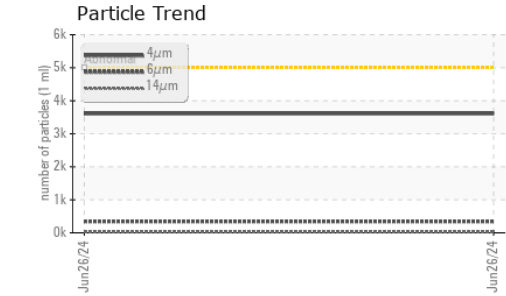
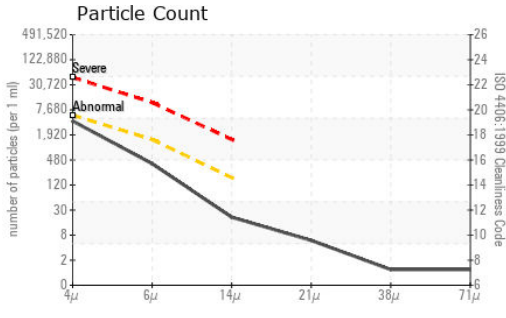
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	3609	---	---
Particles >6µm	ASTM D7647 >1300	344	---	---
Particles >14µm	ASTM D7647 >160	18	---	---
Particles >21µm	ASTM D7647 >40	5	---	---
Particles >38µm	ASTM D7647 >10	1	---	---
Particles >71µm	ASTM D7647 >3	1	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	19/16/11	---	---

Particle Filter (Magn: 100 x)





OIL ANALYSIS REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 720 - Lafleche - Landfill**
Sample No. : GFL0124533 **Received** : 02 Jul 2024 17125 Lafleche Road,
Lab Number : 02644856 **Tested** : 03 Jul 2024 Moose Creek, ON
Unique Number : 5802395 **Diagnosed** : 04 Jul 2024 - Kevin Marson CA K0C 1W0
Test Package : MOB 1 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, PrtCount, PrtFilter)
 Contact: Charles Bergeron
 cbergeron@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

T: (613)538-4853
 F:

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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	42.0	39.7	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image
PrtFilter				no image	no image

GRAPHS

