

Machine Id
OE192
Component
Left Final Drive
Fluid
NOT GIVEN (5 LTR)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was specified as (GENERIC) NOT GIVEN, however, a fluid match indicates that this fluid is SAE 80W90 Gear Oil. Please confirm the oil type and grade on your next sample.

WEAR

Copper and tin ppm levels are severe. Lead ppm levels are abnormal. Aluminum ppm levels are noted. Bearing and/or bushing wear is indicated.

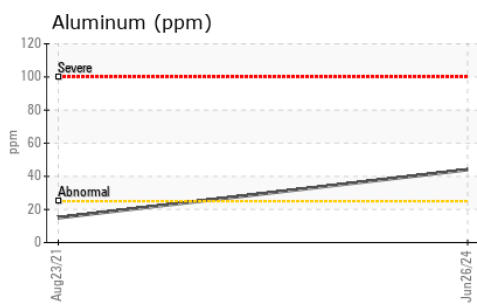
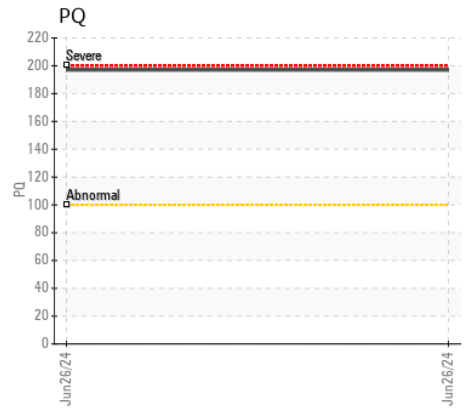
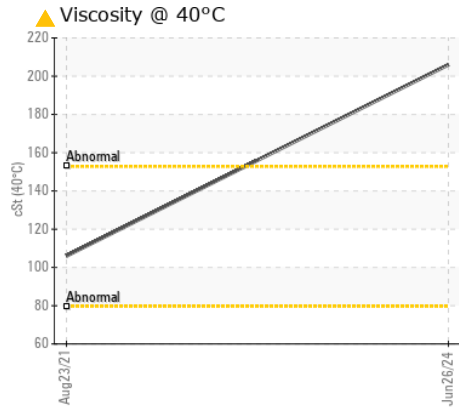
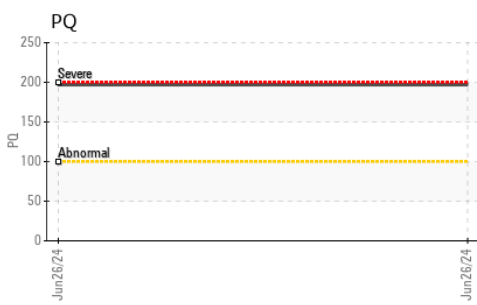
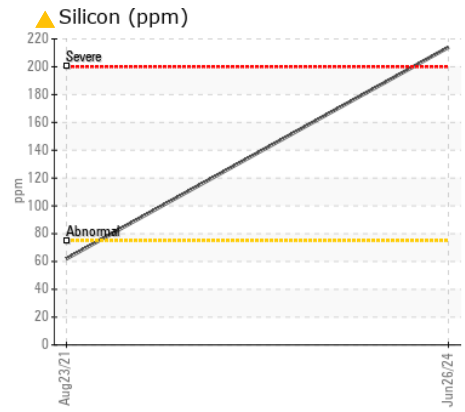
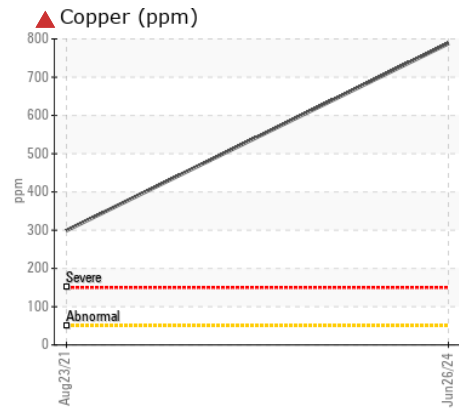
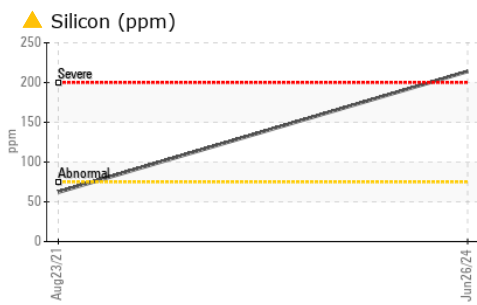
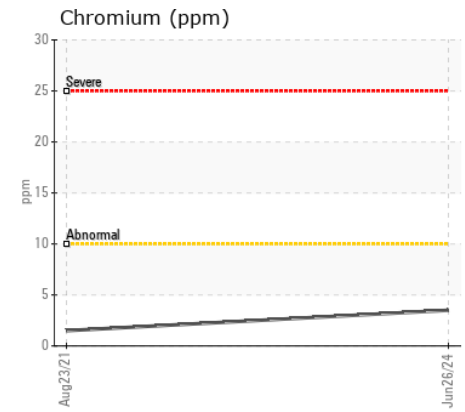
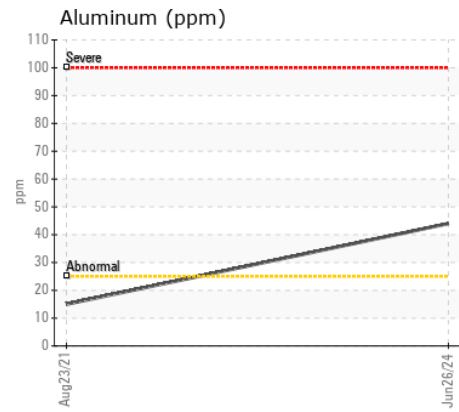
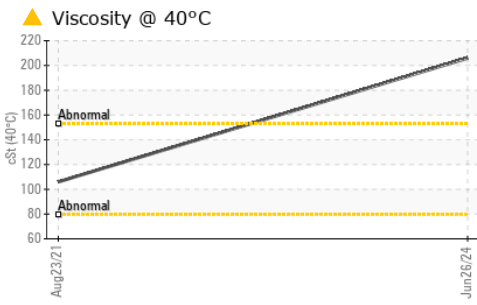
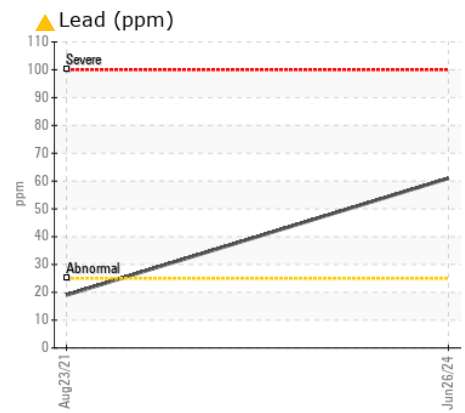
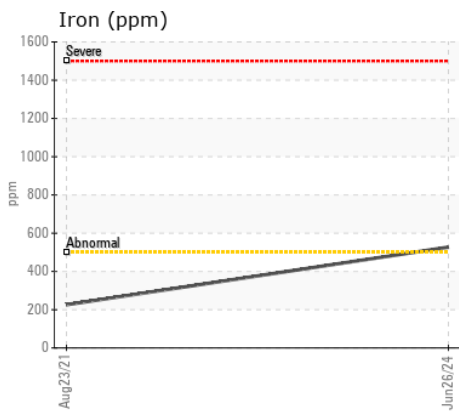
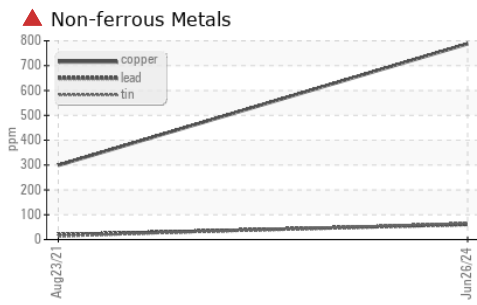
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component.

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 80W90 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0124532	GFL0030464	---
Sample Date		Client Info		26 Jun 2024	23 Aug 2021	---
Machine Age	hrs	Client Info		1659	599	---
Oil Age	hrs	Client Info		300	500	---
Filter Age	hrs	Client Info		300	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	NORMAL	---
PQ		ASTM D8184*		197	---	---
Iron	ppm	ASTM D5185(m)	>500	527	226	---
Chromium	ppm	ASTM D5185(m)	>10	4	2	---
Nickel	ppm	ASTM D5185(m)	>10	4	2	---
Titanium	ppm	ASTM D5185(m)		3	2	---
Silver	ppm	ASTM D5185(m)		<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	44	15	---
Lead	ppm	ASTM D5185(m)	>25	▲ 61	19	---
Copper	ppm	ASTM D5185(m)	>50	▲ 788	299	---
Tin	ppm	ASTM D5185(m)	>10	▲ 66	13	---
Vanadium	ppm	ASTM D5185(m)		<1	<1	---
White Metal	scalar	Visual*	NONE	VLITE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185(m)	>75	▲ 214	62	---
Potassium	ppm	ASTM D5185(m)	>20	92	9	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	VLITE	NONE	---
Debris	scalar	Visual*	NONE	NONE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	▲ WGOIL	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)		32	4	---
Boron	ppm	ASTM D5185(m)		161	70	---
Barium	ppm	ASTM D5185(m)		1	<1	---
Molybdenum	ppm	ASTM D5185(m)		0	<1	---
Manganese	ppm	ASTM D5185(m)		5	2	---
Magnesium	ppm	ASTM D5185(m)		18	8	---
Calcium	ppm	ASTM D5185(m)		172	112	---
Phosphorus	ppm	ASTM D5185(m)		908	873	---
Zinc	ppm	ASTM D5185(m)		85	393	---
Sulfur	ppm	ASTM D5185(m)		15985	11786	---
Visc @ 40°C	cSt	ASTM D7279(m)		▲ 206	106	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0124532
Lab Number : 02644941
Unique Number : 5802480
Test Package : MOB 1 (Additional Tests: PQ)

GFL Environmental - 720 - Lafleche - Landfill
 17125 Lafleche Road,
 Moose Creek, ON
 CA K0C 1W0
 Contact: Charles Bergeron
 cbergeron@gflenv.com
 T: (613)538-4853
 F:

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.