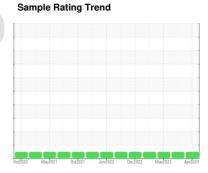


OIL ANALYSIS REPORT







DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102916	GFL0053571	GFL0082544
Sample Date		Client Info		03 Apr 2024	27 Sep 2023	19 May 2023
Machine Age	hrs	Client Info		0	0	118345
Oil Age	hrs	Client Info		7873	7167	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS	6	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	6	6	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	1	1	1
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	3	2	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	111	107	5
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	9	9	57
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	92	127	920
Calcium	ppm	ASTM D5185(m)	1070	2039	1995	1079
Phosphorus	ppm	ASTM D5185(m)	1150	896	921	1058
Zinc	ppm	ASTM D5185(m)	1270	1073	1135	1145
Sulfur	ppm	ASTM D5185(m)	2060	2682	2727	2658
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	2	2
Sodium	ppm	ASTM D5185(m)		3	5	2
Potassium	ppm	ASTM D5185(m)	>20	5	6	1
Fuel	%	ASTM D7593*	>3.0	1.2	<1.0	<1.0
Glycol	%	ASTM D7922*		0.0	0.0	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.1	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	8.5	7.7	5.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.7	20.7	17.8



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No.

: GFL0102916 Lab Number : 02626527

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 04 Apr 2024 **Tested** : 05 Apr 2024

Unique Number : 5759659 Diagnosed : 05 Apr 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel)

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.

GFL Environmental - 246 - Windsor

2700 Deziel Dr Windsor, ON **CA N8W 5H8** Contact: Dave Varga dvarga@gflenv.com T: (519)944-8009

Submitted By: Dave Varga