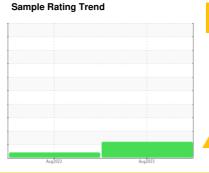


# **OIL ANALYSIS REPORT**







# **DIAGNOSIS**

## Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

## Contamination

Light fuel dilution occurring.

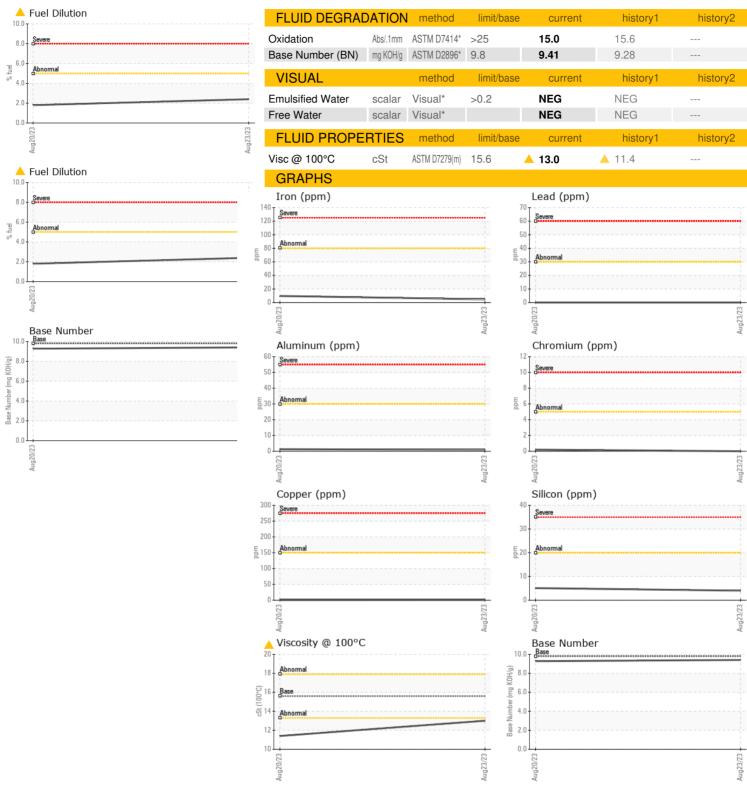
### ▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

N HP 15W40 ( (	GAL)		Aug2023	Aug2023		
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084361	GFL0084353	
Sample Date		Client Info		23 Aug 2023	20 Aug 2023	
Machine Age	hrs	Client Info		312958	13930	
	hrs	Client Info		0	348	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
ron p	ppm	ASTM D5185(m)	>80	5	10	
Chromium	ppm	ASTM D5185(m)	>5	0	<1	
Nickel p	ppm	ASTM D5185(m)	>2	0	0	
- Titanium p	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)	>3	0	<1	
Aluminum	ppm	ASTM D5185(m)	>30	<1	1	
_ead r	ppm	ASTM D5185(m)	>30	0	0	
Copper	ppm	ASTM D5185(m)	>150	<1	<1	
īn p	ppm	ASTM D5185(m)	>5	0	0	
Antimony	ppm	ASTM D5185(m)		0	0	
/anadium p	ppm	ASTM D5185(m)		0	0	
Beryllium p	ppm	ASTM D5185(m)		0	0	
Cadmium p	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron p	ppm	ASTM D5185(m)	0	4	3	
Barium	ppm	ASTM D5185(m)	0	0	0	
Molybdenum p	ppm	ASTM D5185(m)	60	54	58	
Manganese p	ppm	ASTM D5185(m)	0	0	<1	
Magnesium p	ppm	ASTM D5185(m)	1010	921	971	
Calcium	ppm	ASTM D5185(m)	1070	1003	1036	
Phosphorus p	ppm	ASTM D5185(m)	1150	1018	1058	
Zinc p	ppm	ASTM D5185(m)	1270	1108	1166	
Sulfur p	ppm	ASTM D5185(m)	2060	2483	2562	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	4	5	
Sodium	ppm	ASTM D5185(m)		2	2	
Potassium	ppm	ASTM D5185(m)	>20	<1	0	
Fuel C	%	ASTM D7593*	>5	<u> </u>	1.8	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0.2	
Nitration /	Abs/cm	ASTM D7624*	>20	6.0	6.2	
Sulfation /	Abs/.1mm	ASTM D7415*	>30	20.0	20.5	



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: GFL0084361

: 5642172

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County Received : 02581107

Diagnosed

Diagnostician : Wes Davis **Test Package**: MOB 2 (Additional Tests: FuelDilution, PercentFuel)

: 08 Sep 2023

: 11 Sep 2023

Contact: GFL Calgary calgarymaintenance@gflenv.com T:

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.

F: (403)369-6163

220 Carmek Blvd

**CA T1X 1X1** 

Rocky View County, AB