

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Machine Id OR681

Component Rear Left Final Drive

Fluid

PETRO CANADA GEARLUBE TOS 80W140 (6 LTR)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

🔺 Wear

Aluminum ppm levels are noted. All other component wear rates are normal.

Contamination

There is a high concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

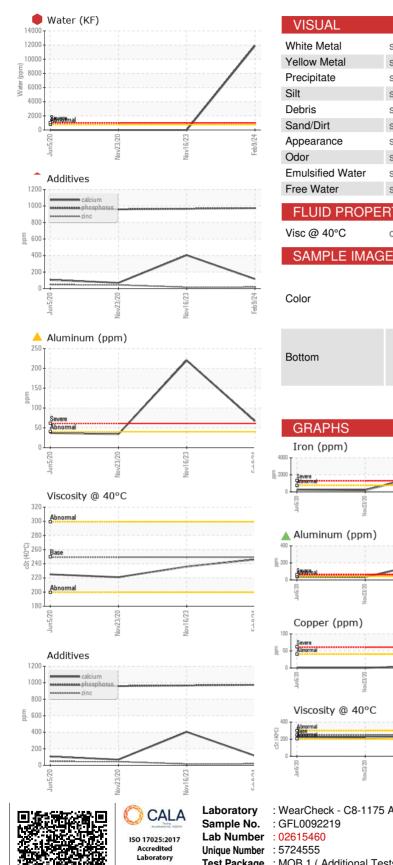
Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0092219	GFL0092227	GFL0010881
Sample Date		Client Info		09 Feb 2024	16 Nov 2023	23 Nov 2020
Machine Age	hrs	Client Info		10645	10033	5143
Oil Age	hrs	Client Info		5143	1000	1000
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				SEVERE	SEVERE	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>750	515	2250	202
Chromium	ppm	ASTM D5185(m)	>9	4	1 8	2
Nickel	ppm	ASTM D5185(m)	>10	2	6	<1
Titanium	ppm	ASTM D5185(m)		3	1 2	2
Silver	ppm	ASTM D5185(m)		0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>40	6 7	2 20	34
Lead	ppm	ASTM D5185(m)	>15	<1	1	<1
Copper	ppm	ASTM D5185(m)	>40	1	5	<1
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Antimony	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	<1	<1
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)	170	144	228	143
Barium	ppm	ASTM D5185(m)	4	0	1	<1
Molybdenum	ppm	ASTM D5185(m)		0	<1	<1
Manganese	ppm	ASTM D5185(m)		4	18	3
Magnesium	ppm	ASTM D5185(m)	1.0	25	75	10
Calcium	ppm	ASTM D5185(m)	16	115	404	69
Phosphorus	ppm	ASTM D5185(m)	920	974	966	959
Zinc	ppm	ASTM D5185(m)	8	18	16	44
Sulfur	ppm	ASTM D5185(m)	1630	16839	15840	18894
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	e 237	• 757	109
Sodium	ppm	ASTM D5185(m)	>51	19	52	10
Potassium	ppm	ASTM D5185(m)	>20	24	82	13
Water	%	ASTM D6304*	>0.075	e 1.190		
ppm Water	ppm	ASTM D6304*	>750	11900		



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	VLITE	LTMOD
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.075	. 5%	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPER	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	249.3	246	236	221
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color						
Bottom						0

