

WEAR	NORMAL
CONTAMINATION	
FLUID CONDITION	NORMAL



Machine Id LIEBHERR PR766 24176

Component Diesel Engine

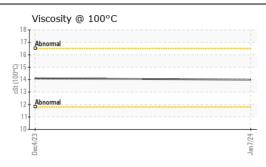
PETRO CANADA 10W40 (--- GAL)

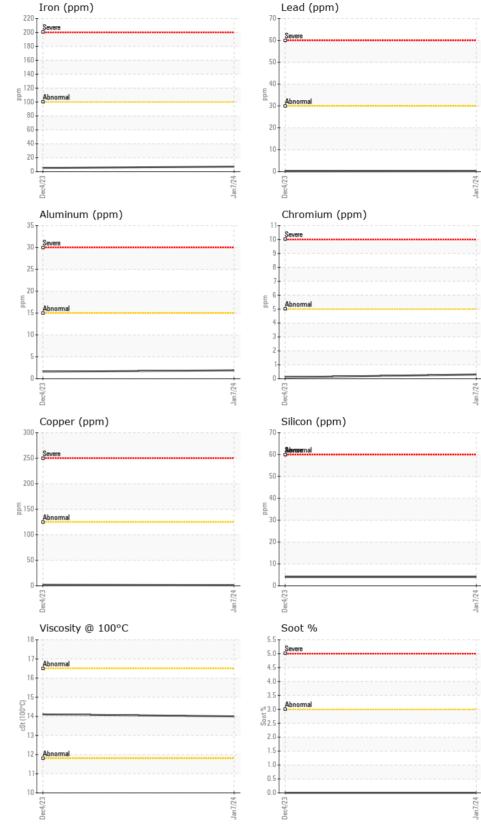
	_ /						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0265125	LH0265103	
nesample at the flext service interval to monitor.	Sample Date		Client Info		07 Jan 2024	04 Dec 2023	
	Machine Age	hrs	Client Info		4931	4477	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185(m)	>100	7	5	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>5	<1	<1	
	Nickel	ppm	ASTM D5185(m)	>5	<1	<1	
	Titanium	ppm	ASTM D5185(m)		0	0	
	Silver	ppm	ASTM D5185(m)	>3	0	<1	
	Aluminum	ppm	ASTM D5185(m)	>15	2	2	
	Lead	ppm	ASTM D5185(m)	>30	<1	<1	
	Copper	ppm	ASTM D5185(m)	>125	1	2	
	Tin	ppm	ASTM D5185(m)	>5	0	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE	LIGHT	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>60	4	4	
CONTAMINATION	Potassium	ppm	ASTM D5185(m)		2	8	
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method	>5	<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	20.L	NEG	0.0	
	Soot %	%	ASTM D7844*	<u>\</u> 3	0	0	
	Nitration	Abs/cm	ASTM D7624*	>20	8.1	7.8	
	Sulfation		ASTM D7624 ASTM D7415*		20.1	19.6	
	Silt	scalar	Visual*	NONE	VLITE	NONE	
	Debris		Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
	Appearance		Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water		Visual*	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>20	4	4	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		44	45	
	Barium	ppm	ASTM D5185(m)		0	<1	
	Molybdenum	ppm	ASTM D5185(m)		57	57	
	Manganese	ppm	ASTM D5185(m)		0	0	
	Magnesium	ppm	ASTM D5185(m)		1080	1090	
	Calcium	ppm	ASTM D5185(m)		814	801	
	Phosphorus	ppm	ASTM D5185(m)		1016	990	
	Zinc	ppm	ASTM D5185(m)		1170	1173	
	Sulfur	ppm	ASTM D5185(m)		2940	2730	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	18.0	17.8	

Visc @ 100°C cSt ASTM D7279(m)

14.1

14.0





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 ARGONAUT GOLD CALA Sample No. Recieved : 19 Jan 2024 DUBREUILVILLE MINE : LH0265125 ø Lab Number : 02609938 DUBREUILVILLE, ON Diagnosed : 19 Jan 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5711024 Diagnostician : Kevin Marson CA Test Package : MOB 1 (Additional Tests: Visual) Contact: Service Manager To discuss this sample report, contact Customer Service at 1-800-268-2131. T: 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:

Contact/Location: Service Manager - ARGDUB

Page 2 of 2