

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



## Machine Id LIEBHERR PR776 26710

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		LH0265126	LH0151021	
	Sample Date		Client Info		10 Jun 2024	05 Nov 2023	
	Machine Age	hrs	Client Info		5154	1049	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185(m)	>100	7	12	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>5	<1	<1	
	Nickel	ppm	ASTM D5185(m)	>5	<1	0	
	Titanium	ppm	ASTM D5185(m)		0	0	
	Silver	ppm	ASTM D5185(m)	>3	0	<1	
	Aluminum	ppm	ASTM D5185(m)	>15	1	1	
	Lead	ppm	ASTM D5185(m)	>30	0	1	
	Copper	ppm	ASTM D5185(m)	>125	1	14	
	Tin	ppm	ASTM D5185(m)	>5	0	<1	
	Vanadium	ppm	ASTM D5185(m)		0	0	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>60	4	5	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	0	0	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	ASTM D7844*	>3	0	0	
	Nitration	Abs/cm	ASTM D7624*	>20	8.5	8.1	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	22.8	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>20	5	4	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		25	50	
	Barium	ppm	ASTM D5185(m)		<1	4	
	Molybdenum	ppm	ASTM D5185(m)		53	52	
	Manganese	ppm	ASTM D5185(m)		0	1	
	Magnesium	ppm	ASTM D5185(m)		1025	1031	
	Calcium	ppm	ASTM D5185(m)		846	902	
	Phosphorus	ppm	ASTM D5185(m)		921	914	
	Zinc	ppm	ASTM D5185(m)		1144	1092	
	Sulfur	ppm	ASTM D5185(m)		2634	2501	
		Abs/.1mm	ASTM D7414*		19.0	22.3	

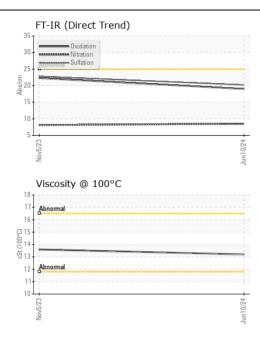
Visc @ 100°C cSt

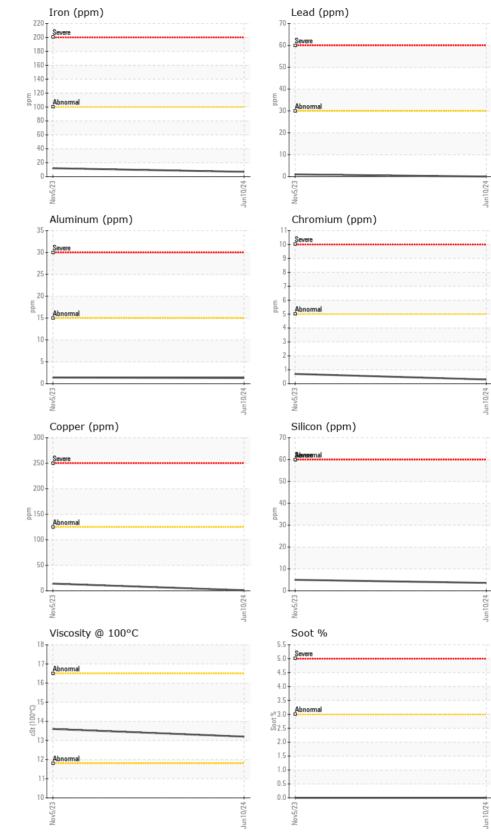
ASTM D7279(m)

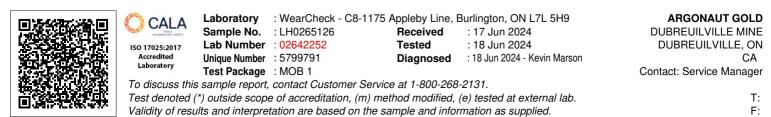
Contact/Location: Service Manager - ARGDUB

13.6

13.2







Report Id: ARGDUB [WCAMIS] 02642252 (Generated: 06/18/2024 13:29:37) Rev: 1

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