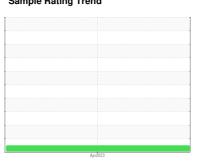


# **OIL ANALYSIS REPORT**

Sample Rating Trend







10583375 - #1MOTOR

Component

**Unknown Component** 

NOT GIVEN (--- GAL)

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the sample.

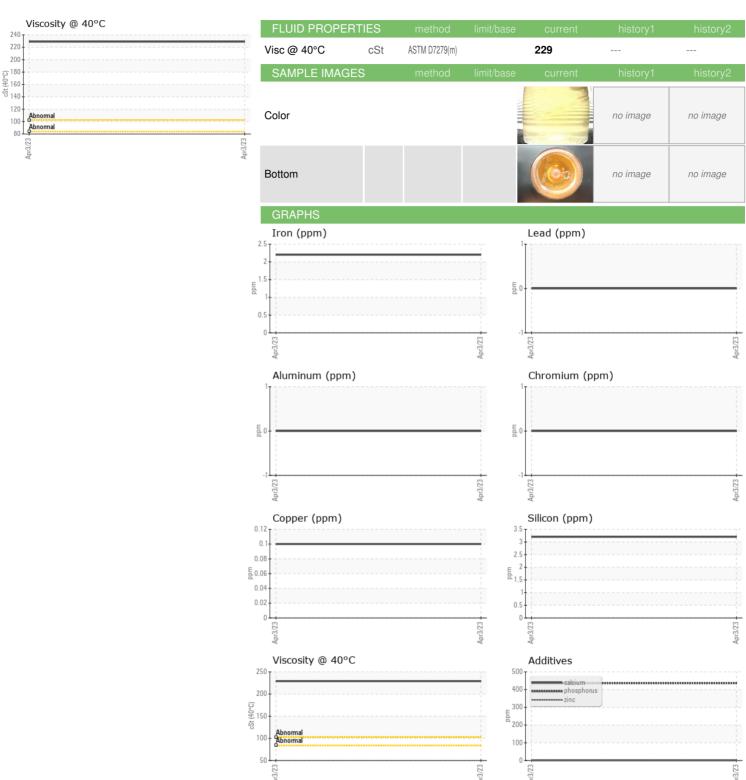
### **Fluid Condition**

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. The condition of the sample is acceptable for the time in service.

				Apr2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0752043		
Sample Date		Client Info		03 Apr 2023		
Machine Age	mths	Client Info		6		
Oil Age	mths	Client Info		1		
Oil Changed	111(113	Client Info		Not Changd		
Sample Status		Ollotte IIIIo		NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)		2		
Chromium	ppm	ASTM D5185(m)		0		
Nickel	ppm	ASTM D5185(m)		<1		
Fitanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)		0		
_ead	ppm	ASTM D5185(m)		0		
Copper	ppm	ASTM D5185(m)		<1		
Fin	ppm	ASTM D5185(m)		0		
Antimony	ppm	ASTM D5185(m)		0		
/anadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES	pp	method	limit/base	current	history1	history2
Boron	n.n.m		mmobacc	11		
	ppm	ASTM D5185(m)				
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m) ASTM D5185(m)		0		
Manganese Magnesium	ppm	ASTM D5185(m)		0		
Calcium	ppm	ASTM D5185(m)		<1		
Phosphorus	ppm	ASTM D5185(III) ASTM D5185(m)		436		
Zinc	ppm	ASTM D5185(m)		2		
Sulfur		ASTM D5185(m)		5013		
_ithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	ppm	.1	limit/bass		1111	
		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		3		
Sodium	ppm	ASTM D5185(m)	. 20	<1		
Potassium	ppm	ASTM D5185(m)	>20	<1		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*		NEG		
Free Water 05:35) Rev: 1	scalar	Visual*	Con	NEG tact/Location: J	 acvnthe Gelinas	 s - INCOCCSM



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WC0752043

: 02579864 : 5632924 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 31 Aug 2023 Diagnosed

: 01 Sep 2023 Diagnostician : Kevin Marson

Vale - Copper Cliff Smelter COPPER CLIFF SMELTER WAREHOUSE, 155 BALSAM ST.

COPPER CLIFF, ON CA P0M 1N0 Contact: Jacynthe Gelinas

jacynthe.gelinas@vale.com T: (705)682-5980

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: (705)682-6535