

## **OIL ANALYSIS REPORT**

Area [4501] 04-004-CE Component Oil

Fluid H0318 MV46 (--- GAL)

# Sample Rating Trend NORMAL

#### Recommendation

This is a baseline read-out on the submitted sample.

#### **Fluid Condition**

Pour Point = -45°C.

Sample Number   Client Info   PP0000931   PP0000930     Sample Date   Client Info   08 Apr 2024   04 Mar 2024     Machine Age   hrs   Client Info   0   0   0       Client Info   O   0   0       Client Info   O   O   0       Client Info   O   O   O       Client Info   N/A	t history1 history2	current	limit/base	method	IATI <u>ON</u>	SAMPLE INFORM
Sample Date						
Machine Age         hrs         Client Info         0         0	<b>4</b> 04 Mar 2024	08 Apr 2024		Client Info		·
Oil Age         hrs         Client Info         N/A		-			hrs	
Oil Changed Sample Status         Client Info         N/A N/A NORMAL         N/A NORMAL         N/A NORMAL						
NORMAL   NORMAL   NORMAL   NORMAL   NORMAT   NORMAT   NORMAT   NORMAT   NEG   NEG		~				-
CONTAMINATION         method         limit/base         current         history1         if           Water         WC Method         NEG         NEG						-
Water         WC Method         NEG         NEG			lineit/lenen	un alla a el		·
WEAR METALS			Ilmit/base		l .	
Iron						
Chromium         ppm         ASTM D5185(m)         >20         0         0	t history1 history2	current	limit/base	method		WEAR METALS
Nickel	0	0	>20	ASTM D5185(m)	ppm	Iron
Titanium	0	0	>20	ASTM D5185(m)	ppm	Chromium
Silver	0	0	>20	ASTM D5185(m)	ppm	Nickel
Aluminum	0	0		ASTM D5185(m)	ppm	Titanium
Lead	0	0		ASTM D5185(m)	ppm	Silver
Copper	0	0	>20	ASTM D5185(m)	ppm	Aluminum
Tin         ppm         ASTM D5185(m)         >20         0         0            Antimony         ppm         ASTM D5185(m)         0         0            Vanadium         ppm         ASTM D5185(m)         0         0            Beryllium         ppm         ASTM D5185(m)         0         0         0           Cadmium         ppm         ASTM D5185(m)         0         0            Cadmium         ppm         ASTM D5185(m)         0         0            Boron         ppm         ASTM D5185(m)         0         0         0           Barium         ppm         ASTM D5185(m)         0         0            Molybdenum         ppm         ASTM D5185(m)         0         0            Magnesium         ppm         ASTM D5185(m)         0         0            Magnesium         ppm         ASTM D5185(m)         54         43            Phosphorus         ppm         ASTM D5185(m)         515         417            Sulfur         ppm         ASTM D5185(m)         908         742	0	0	>20	ASTM D5185(m)	ppm	Lead
Antimony         ppm         ASTM D5185(m)         0         0	0	0	>20	ASTM D5185(m)	ppm	Copper
Vanadium         ppm         ASTM D5185(m)         0         0	0	0	>20	ASTM D5185(m)	ppm	Tin
Beryllium	0	0		ASTM D5185(m)	ppm	Antimony
Cadmium         ppm         ASTM D5185(m)         0         0	0	0		ASTM D5185(m)	ppm	Vanadium
ADDITIVES	0	0		ASTM D5185(m)	ppm	Beryllium
Boron	0	0		ASTM D5185(m)	ppm	Cadmium
Barium         ppm         ASTM D5185(m)         0         0	t history1 history2	current	limit/base	method		ADDITIVES
Barium	0	0		ASTM D5185(m)	ppm	Boron
Molybdenum         ppm         ASTM D5185(m)         0         0	0			. ,		Barium
Manganese         ppm         ASTM D5185(m)         0         0				,		Molybdenum
Magnesium         ppm         ASTM D5185(m)         0         <1            Calcium         ppm         ASTM D5185(m)         54         43            Phosphorus         ppm         ASTM D5185(m)         405         329            Zinc         ppm         ASTM D5185(m)         515         417            Sulfur         ppm         ASTM D5185(m)         908         742            Lithium         ppm         ASTM D5185(m)         <1		0		. ,		
Calcium         ppm         ASTM D5185(m)         54         43	<1	-				-
Phosphorus         ppm         ASTM D5185(m)         405         329				. ,		-
Zinc         ppm         ASTM D5185(m)         515         417            Sulfur         ppm         ASTM D5185(m)         908         742            Lithium         ppm         ASTM D5185(m)         <1		-		,		
Sulfur         ppm         ASTM D5185(m)         908         742				. ,		•
Lithium         ppm         ASTM D5185(m)         <1         <1            CONTAMINANTS         method         limit/base         current         history1         h           Silicon         ppm         ASTM D5185(m)         >15         0         0            Sodium         ppm         ASTM D5185(m)         0         <1				, ,		-
CONTAMINANTS         method         limit/base         current         history1         fr           Silicon         ppm         ASTM D5185(m)         >15         0         0            Sodium         ppm         ASTM D5185(m)         0         <1				. ,		
Silicon         ppm         ASTM D5185(m)         >15         0         0            Sodium         ppm         ASTM D5185(m)         0         <1            Potassium         ppm         ASTM D5185(m)         >20         <1         <1            VISUAL         method         limit/base         current         history1         President           White Metal         scalar         Visual*         NONE         NONE         NONE         NONE           Yellow Metal         scalar         Visual*         NONE         NONE         NONE         NONE           Precipitate         scalar         Visual*         NONE         NONE         NONE         NONE			1121/1	( )	ррш	
Sodium         ppm         ASTM D5185(m)         0         <1            Potassium         ppm         ASTM D5185(m)         >20         <1						
Potassium         ppm         ASTM D5185(m)         >20         <1         <1            VISUAL         method         limit/base         current         history1         h           White Metal         scalar         Visual*         NONE         NONE         NONE           Yellow Metal         scalar         Visual*         NONE         NONE         NONE           Precipitate         scalar         Visual*         NONE         NONE         NONE			>15			
VISUAL method limit/base current history1 h White Metal scalar Visual* NONE NONE NONE Yellow Metal scalar Visual* NONE NONE NONE Precipitate scalar Visual* NONE NONE NONE				ASTM D5185(m)	ppm	
White Metal scalar Visual* NONE NONE NONE Yellow Metal scalar Visual* NONE NONE NONE Precipitate scalar Visual* NONE NONE NONE	<1	<1	>20	ASTM D5185(m)	ppm	Potassium
Yellow Metal     scalar     Visual*     NONE     NONE     NONE     NONE       Precipitate     scalar     Visual*     NONE     NONE     NONE	t history1 history2	current	limit/base	method		VISUAL
Precipitate scalar Visual* NONE NONE NONE	NONE	NONE	NONE	Visual*	scalar	White Metal
·	NONE	NONE	NONE	Visual*	scalar	Yellow Metal
Silt scalar Visual* NONE NONE NONE	NONE	NONE	NONE	Visual*	scalar	Precipitate
	NONE	NONE	NONE	Visual*	scalar	
Debris scalar Visual* NONE NONE NONE	NONE	NONE	NONE	Visual*	scalar	Debris
Sand/Dirt scalar Visual* NONE NONE						Sand/Dirt
Appearance scalar Visual* NORML NORML NORML	NORML	NORML				
	ation Many Michalkoff - OLEN					



### **OIL ANALYSIS REPORT**

FLUID PROPER	RTIES	method	limit/base	current	history1	history2
Pour Point	°C	ASTM D97*		-45	-42	
SAMPLE IMAG	ES	method	limit/base	current	history1	history2
Color						no image
Bottom						no image
GRAPHS						



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Unique Number : 5760893

**Sample No.** : PP0000931 Lab Number : 02627761

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 09 Apr 2024 **Tested** : 10 Apr 2024

Diagnosed : 10 Apr 2024 - Kevin Marson

Test Package : TEST ( Additional Tests: ICP, PourPt, Visual ) 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.

**Oleo Energies** 5800 Thorold Stone Road

Niagara Falls, ON CA L2J 1A2 Contact: Mark Michalkoff mmichalkoff@oleoenergies.com

T: (905)358-5133