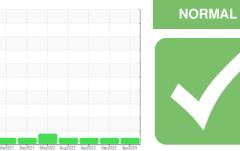


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Area MILLING Machine Id C-115 Component Gearbox Fluid MOBIL SHC 630 (1 LTR)

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

## Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

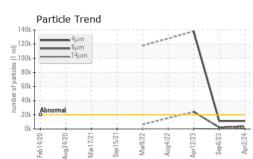
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0919953	WC0854678	WC0809609
Sample Date		Client Info		02 Apr 2024	06 Sep 2023	12 Apr 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	17	1
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	32	32	34
Chromium	ppm	ASTM D5185m	>15	<1	0	0
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	<1	0
Tin	ppm	ASTM D5185m	>25	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Danam	pp			•	Ũ	ő
Molybdenum	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0 <1 <1	0 1 <1	0
Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m		0 <1	0 1	0 <1
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 <1	0 1 <1 2 516	0 <1 2
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 <1 4	0 1 <1 2	0 <1 2 0
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 <1 <1 4 430	0 1 <1 2 516	0 <1 2 0 448
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 <1 <1 4 430 5	0 1 <1 2 516 2	0 <1 2 0 448 0
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b>	limit/base	0 <1 <1 4 430 5 0	0 1 <1 2 516 2 0	0 <1 2 0 448 0 0
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b>		0 <1 <1 4 430 5 0 current	0 1 <1 2 516 2 0 history1	0 <1 2 0 448 0 0 0 0 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>50	0 <1 <1 4 430 5 0 current 42	0 1 <1 2 516 2 0 history1 41	0 <1 2 0 448 0 0 0 0 history2 31
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	>50	0 <1 <1 4 430 5 0 0 <u>current</u> 42 0	0 1 <1 2 516 2 0 history1 41 0	0 <1 2 0 448 0 0 0 history2 31 0
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>50 >20	0 <1 <1 4 430 5 0 0 <u>current</u> 42 0 2	0 1 <1 2 516 2 0 <b>history1</b> 41 0 0	0 <1 2 0 448 0 0 0 history2 31 0 <1 +istory2 138036
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>50 >20 limit/base >20000 >5000	0 <1 <1 4 430 5 0 0 <u>current</u> 42 0 2 2 <u>current</u> 11229 3737	0 1 <1 2 516 2 0 history1 41 0 0 0 history1 11170 2125	0 <1 2 0 448 0 0 0 0 history2 31 0 <1 1 history2 138036 24219
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 limit/base >20000 >5000 >640	0 <1 <1 4 430 5 0 0 <u>current</u> 42 0 2 2 <u>current</u> 11229 3737 593	0 1 <1 2 516 2 0 history1 41 0 0 history1 11170 2125 163	0 <1 2 0 448 0 0 0 0 <b>history2</b> 31 0 <1 <b>history2</b> 138036 24219 385
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 limit/base >20000 >5000 >640 >160	0 <1 <1 4 4 30 5 0 0 <i>current</i> 42 0 2 2 <i>current</i> 11229 3737 593 98	0 1 <1 2 516 2 0 history1 41 0 0 history1 11170 2125 163 28	0 <1 2 0 448 0 0 0 history2 31 0 <1 history2 138036 24219 385 52
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 limit/base >20000 >5000 >5000 >640 >160 >40	0 <1 <1 4 430 5 0 <u>current</u> 42 0 2 2 <u>current</u> 11229 3737 593 98 1	0 1 <1 2 516 2 0 history1 41 0 0 history1 11170 2125 163 28 0	0 <1 2 0 448 0 0 0 history2 31 0 <1 history2 138036 24219 385 52 5
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 limit/base >20000 >5000 >5000 >640 >160 >40 >10	0 <1 <1 4 430 5 0 current 42 0 2 2 current 11229 3737 593 98 1 0	0 1 <1 2 516 2 0 history1 41 0 0 history1 11170 2125 163 28 0 0 0	0 <1 2 0 448 0 0 0 <b>history2</b> 31 0 <1 <b>history2</b> 138036 24219 385 52 5 5 1
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Potassium Particles >4µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 limit/base >20000 >5000 >5000 >640 >160 >40	0 <1 <1 4 430 5 0 <u>current</u> 42 0 2 2 <u>current</u> 11229 3737 593 98 1	0 1 <1 2 516 2 0 history1 41 0 0 history1 11170 2125 163 28 0	0 <1 2 0 448 0 0 0 history2 31 0 <1 history2 138036 24219 385 52 5
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm ppm ESS	ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 limit/base >20000 >5000 >5000 >640 >160 >40 >10	0 <1 <1 4 430 5 0 current 42 0 2 2 current 11229 3737 593 98 1 0	0 1 <1 2 516 2 0 history1 41 0 0 history1 11170 2125 163 28 0 0 0	0 <1 2 0 448 0 0 0 <b>history2</b> 31 0 <1 <b>history2</b> 138036 24219 385 52 52 5 1
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4μm Particles >4μm Particles >21μm Particles >38μm Particles >38μm Particles >71μm Oil Cleanliness	ppm ppm ppm ppm ppm ppm ppm ppm ESS	ASTM D5185m ASTM D7647 ASTM D7647	>50 >20 limit/base >20000 >5000 >640 >160 >40 >10 >21/19/16	0 <1 <1 4 4 30 5 0 <i>current</i> 42 0 2 <i>current</i> 11229 3737 593 98 1 0 21/19/16	0 1 <1 2 516 2 0 history1 41 0 0 history1 11170 2125 163 28 0 0 21/18/15	0 <1 2 0 448 0 0 0 history2 31 0 <1 history2 138036 24219 385 52 52 5 5 1 24/22/16

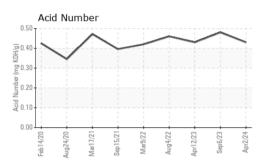
Report Id: POEGRO [WUSCAR] 06138528 (Generated: 04/06/2024 12:10:05) Rev: 1

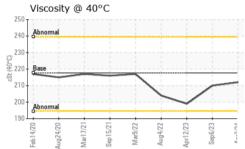
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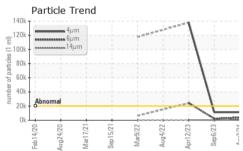


# **OIL ANALYSIS REPORT**

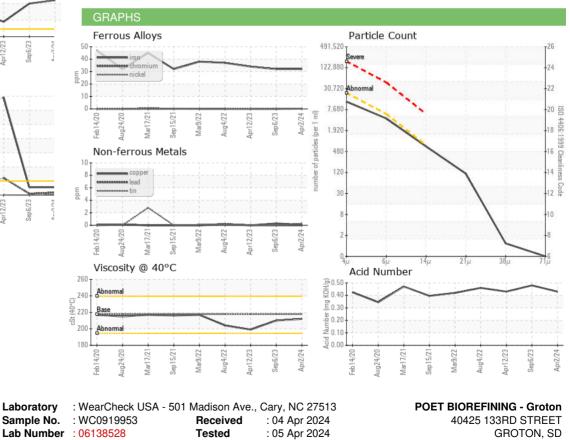








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT		method	limit/base	current	history1	history2
LOID THOP LITT						THSTOLYZ
Visc @ 40°C	cSt	ASTM D445	217.7	212	210	199
	cSt					
Visc @ 40°C	cSt	ASTM D445	217.7	212	210	199





 Unique Number
 : 10963336
 Diagnosed
 : 06 Apr 2024 - Don Baldridge

 Certificate L2367
 Test Package
 : IND 2 (Additional Tests: PrtCount)
 Con

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 Gavin

 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

US 57445-6400 Contact: GAVIN KRUEGER Gavin.Krueger@POET.COM T: 6(05)846-6863 26:2012) F: (605)397-2754

Report Id: POEGRO [WUSCAR] 06138528 (Generated: 04/06/2024 12:10:05) Rev: 1

Submitted By: GAVIN KRUEGER

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