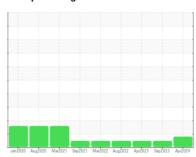


OIL ANALYSIS REPORT

Sample Rating Trend





MILLING C-840 Gearbox

MOBIL SHC 630 (2 LTR)

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

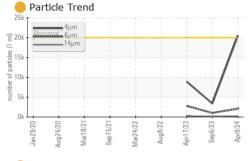
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

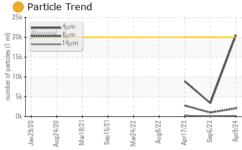
	- Jan-2020 Aug-2020 Mar-2021 Sept-2021 Mar-2022 Aug-2022 Ap-2023 Sept-2023 Ap-2024					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0929831	WC0854672	WC0809582
Sample Date		Client Info		09 Apr 2024	06 Sep 2023	17 Apr 2023
Machine Age	yrs	Client Info		5	5	5
Oil Age	yrs	Client Info		5	2	2
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINATION	V	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	24	20	22
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		0	<1	0
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	0	<1	0
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base		history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1 0		<1
Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		7	<1 4	<1 1
Phosphorus	ppm	ASTM D5185m		435	511	435
Zinc	ppm	ASTM D5185m		0	0	1
Sulfur	ppm	ASTM D5185m		35	0	230
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	49	48	64
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	20542	3367	8911
Particles >6μm		ASTM D7647	>5000	2081	1000	2772
Particles >14μm		ASTM D7647	>640	209	124	244
Particles >21µm		ASTM D7647	>160	39	37	36
Particles >38µm		ASTM D7647	>40	3	2	2
Particles >71μm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>22/18/15</u>	19/17/14	20/19/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

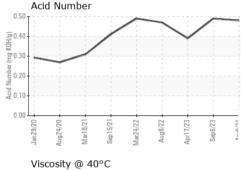
0.48

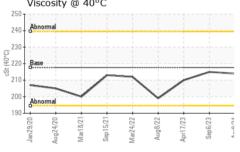


OIL ANALYSIS REPORT





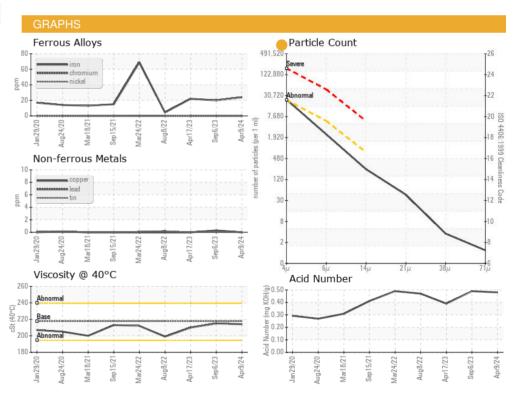




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	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	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	217.7	214	215	210

SAMPLE IMAGES	method	limit/base	current	history1	history2









Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: WC0929831 Lab Number : 06145815 Unique Number : 10975893

Received **Tested**

: 11 Apr 2024 : 12 Apr 2024

Diagnosed : 14 Apr 2024 - Don Baldridge Test Package : IND 2 (Additional Tests: PrtCount)

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

POET BIOREFINING - Groton

40425 133RD STREET GROTON, SD US 57445-6400

Contact: GAVIN KRUEGER Gavin.Krueger@POET.COM

T: 6(05)846-6863 F: (605)397-2754

Submitted By: GAVIN KRUEGER