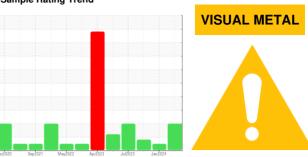


OIL ANALYSIS REPORT

Sample Rating Trend



CORN RECEIVING C-812

Gearbox

MOBIL SHC 630 (13 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Moderate concentration of visible metal present. All component wear rates are normal.

Contamination

There is a moderate amount of visible silt present in the sample.

Fluid Condition

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

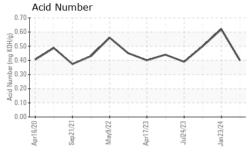
		Apr2020	Sep 2021 May 2022	Apr2023 Jul2023 Ja	n2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0940999	WC0896635	WC0857558
Sample Date		Client Info		29 May 2024	23 Jan 2024	22 Sep 2023
Machine Age	mths	Client Info		60	60	2
Oil Age	mths	Client Info		0	60	2
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINATION	١	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	112	14	66
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	3	2
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	0	<1
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	current	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	ppm	ASTM D5185m		0	<1	1
Calcium	ppm	ASTM D5185m		2	2	6
Phosphorus	ppm	ASTM D5185m		498	465	451
Zinc	ppm	ASTM D5185m		<1 -	2	<1
Sulfur	ppm	ASTM D5185m		7	0	26
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	23	22	38
Sodium	ppm	ASTM D5185m		0	0	2
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000		132007	
Particles >6µm		ASTM D7647	>5000		46323	
Particles >14µm		ASTM D7647	>640		1264	
Particles >21µm		ASTM D7647	>160		173	
Particles >38µm		ASTM D7647	>40		2	
Particles >71µm		ASTM D7647	>10		1	
Oil Cleanliness		ISO 4406 (c)	>21/19/16		24/23/17	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

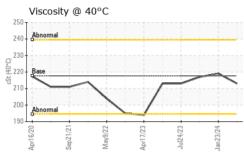
Page 1 of 2

0.40



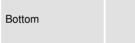
OIL ANALYSIS REPORT





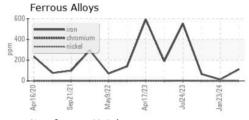
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ MODER	NONE	▲ MODER
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	217.7	213	219	217
SAMPLE IMAGES		method	limit/base	current	history1	history2

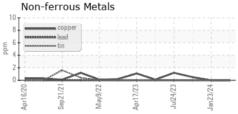
Color

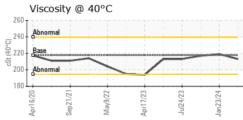


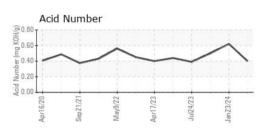


GRAPHS













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0940999 Lab Number : 06196655

Received **Tested** Unique Number : 11058778

: 31 May 2024 : 05 Jun 2024 Diagnosed

: 05 Jun 2024 - Jonathan Hester

Test Package : IND 2 (Additional Tests: PrtCount) Certificate 12367 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

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Submitted By: GAVIN KRUEGER