

OIL ANALYSIS REPORT

Sample Rating Trend



EUCO 2 MIXER 1

Component 1 Gearbox Fluid MOBIL SHC 632 (40 GAL)

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.

Fluid Condition

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

T										
1.0										111
1.1										11
-										i d
										11
										11
1.1.1.1										
	-	÷	-	-	a di			-		-

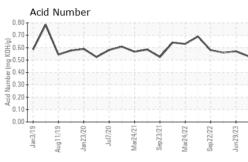


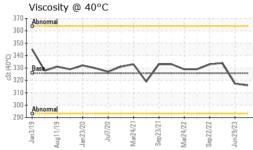
an2019 Aug2019 Jan2020 Jul2020 Mar2021 Sep2021 Mar2022 Sep2022 Jun2023

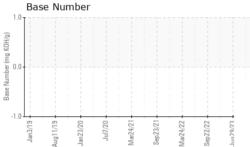
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0887438	WC0747988	WC0748012
Sample Date		Client Info		27 Dec 2023	29 Jun 2023	22 Dec 2022
Machine Age	hrs	Client Info		0	83458	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	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	<1	10	4
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	0
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>200	0	0	0
Tin	ppm	ASTM D5185m	>10	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	2	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		0	0	3
Phosphorus	ppm	ASTM D5185m		379	442	377
Zinc	ppm	ASTM D5185m		0	2	0
Sulfur	ppm	ASTM D5185m		13	160	90
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	21	28	23
Sodium	ppm	ASTM D5185m		0	0	2
Potassium	ppm	ASTM D5185m	>20	<1	1	0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.53	0.57	0.56



OIL ANALYSIS REPORT







		~			/ISUAL			SC	alar	me *Visu	ihod Ial	lim NON	it/base	N	curre		Ν	histo NONE			hist NON	ory2 E
~	$ \ \ \ \ \ \ \ \ \ \ \ \ \ $	~	-		llow Me				alar	*Visu		NON			IONE			NONE			NON	
					ecipitate				alar	*Visu		NON			IONE						NON	
				Silt					alar	*Visu	ıal	NON			IONE						NON	
				De	bris			SC	alar	*Visu	al	NON	١E	N	IONE		Ν		-		NON	E
				Sa	nd/Dirt			SC	alar	*Visu	ıal	NON	١E	N	IONE		N		-		NON	E
Mar24/21	3ep.23/21 Mar24/22	Sep22/22	Jun29/23	Ар	pearan	се		SC	alar	*Visu	ıal	NOF	RML	N	IORM	IL	N	IORI	ЛL		NOR	ML
Mai	Mar	Sep	Jun	Od	lor			SC	alar	*Visu	ıal	NOF	RML	N	IORM	IL	Ν	NORN	ЛL		NOR	ML
				Em	nulsified	d Wa	ater	SC	alar	*Visu	ıal	>0.2		N	IEG		Ν	IEG			NEG	
					ee Wate			_	alar	*Visu	al			N	IEG		Ν	NEG			NEG	
					LUID		PER				thod		it/base		curre	ent		histo	· ·			ory2
\sim	\sim	_	7	_	sc @ 4(11.05	cS	t		I D445			3	16		3	317.3			334	0
				S	SAMPL	E IV	/IAGE	:S		me	thod	lım	it/base		curre	ent		histo	ory1		hist	ory2
Mar24/21	Sep.23/21 +	Sep22/22	Jun29/23	Co	lor									r	no imag	ge		2	N		no im	age
					ttom									r	no imag	ge	Í				no im	age
					RAPH									Lei	ad (p	nm)						
				600 T 2	Severe						-		200			piii)	1	1	I	ī	I	I
<u> </u>		2		ETUUT	Abnormal								톱 100) I I I	<u></u>							
Mar24/21	oepz.3/21 Mar24/22	Sep22/22	Jun79/73	οĻ)L	normal				_			_
2 0	an N	Se	-	Jan 3/19	Aug11/19	Jan23/20	Jul7/20	Mar24/21	Sep23/21	Mar24/22	Sep22/22	Jun29/23		Jan3/19	Aug11/19	Jan 23/20	Jul7/20	Mar24/21	Sep23/21	Mar24/22	Sep22/22	Jun29/23
					 Aluminu		ppm)		~	Z	ŝ	'n				um (p	pm)	2	0	Z	õ	٦٢
					Severe						I	1	30 E 20 10	Sev	ere							
				udd 50	Abnormal								Ē 10	Abi	normal							
				Jan3/19	Aug11/19	Jan 23/20	Jul7/20	Mar24/21	Sep23/21-	Mar24/22	Sep22/22	Jun29/23		Jan3/19	Aug11/19	Jan 23/20	Jul7/20	Mar24/21	Sep23/21	Mar24/22	Sep22/22	Jun29/23
					opper			Ma	Sel	Ma	Sep	Jur				ppm)		Ma	Sel	Ma	Sep	Jur
				600 T -	Severe	(PP			111				150 = 100	Sev		pp,						
				E 100 +	Abnormal								E 100	Ab	normal							
				Jan3/19	1/19	3/20	Jul7/20	4/21	3/21	4/22	2/22	9/23	0	Jan 3/19	1/19	Jan 23/20 +	Jul7/20 -	4/21-	3/21-	4/22 +	2/22 -	9/23
					A	Jan23/20		Mar24/21	Sep23/21	Mar24/22	Sep22/22	Jun29/23	_		Aug11/19			Mar24/21	Sep23/21	Mar24/22	Sep22/22	Jun29/23
				400 T 7	iscosity Abnormal	/@	40°C						(B/HOX 1.0	Ba	se Nu	ımbeı	r					
				°€ 350 - F	Base Abnormal				-			-	0.0 Base Number (mg KOH/g) -1.0									
				250					11				-1.0	Ъ							2	
				Jan 3/19	Aug11/19	Jan23/20	Jul7/20	Mar24/21	Sep23/21	Mar24/22	Sep22/22	Jun29/23	Ba	Jan3/19	Aug11/19	Jan23/20	Jul7/20	Mar24/21	Sep23/21	Mar24/22	Sep22/22	Jun29/23
		: WearCheck USA - 5 : WC0887438 : 06058298 r : 10829680					ievec Inose Inost s: TB at 1-8	i ed ician BN) 200-23	Jan 20 Jan 20 nathan	an 2024 an 2024 athan Hester			KB BIOENERGY 2677 RIVERVIEW AKRON, US 44 Contact: ERIC f ericf@kbbioenergy.com;jwatson@wearcheckus;					W RD N, OH 44313 C FOX				