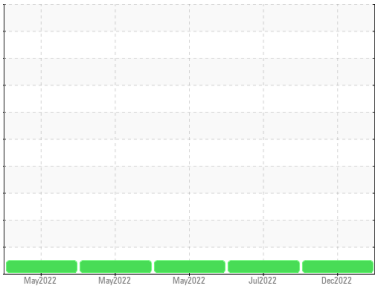
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
GUAY SON [22188]
Machine Id
Base Line IBACO XTRA REV 15W-40
Component
New (Unused) Oil
Fluid
Xtra Rev 15W-40 (--- GAL)

DIAGNOSIS

Recommendation
This is a baseline read-out on the submitted sample. (Customer Sample Comment: Batch #22188)

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KL0011289**	KL0010114	KL0010172
Sample Date		Client Info		**02 Dec 2022**	28 Jul 2022	17 May 2022
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		**1**	2	2
Chromium	ppm	ASTM D5185m		**<1**	<1	<1
Nickel	ppm	ASTM D5185m		**<1**	<1	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m		**5**	<1	<1
Aluminum	ppm	ASTM D5185m		**3**	<1	2
Lead	ppm	ASTM D5185m		**1**	1	<1
Copper	ppm	ASTM D5185m		**<1**	<1	0
Tin	ppm	ASTM D5185m		**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**<1**	<1	0
Cadmium	ppm	ASTM D5185m		**<1**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**3**	2	461
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	3	118
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**11**	15	540
Calcium	ppm	ASTM D5185m		**2826**	2503	1544
Phosphorus	ppm	ASTM D5185m		**1178**	1018	859
Zinc	ppm	ASTM D5185m		**1412**	1231	1001
Sulfur	ppm	ASTM D5185m		**3938**	2926	3169

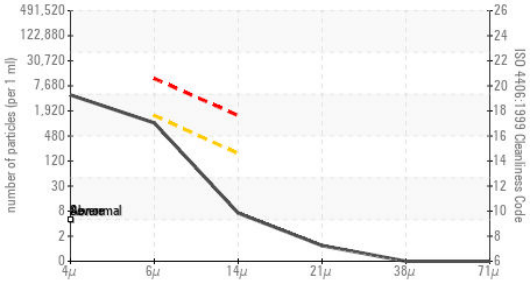
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		**6**	6	9
Sodium	ppm	ASTM D5185m		**0**	2	<1
Potassium	ppm	ASTM D5185m	>20	**6**	7	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**---**	0.1	0.1
Nitration	Abs/cm	*ASTM D7624		**---**	4.8	4.8
Sulfation	Abs/.1mm	*ASTM D7415		**---**	13.4	20.3

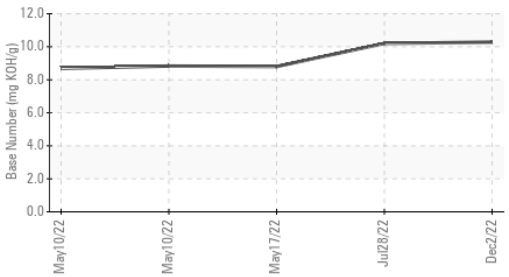
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**4043**	546	---
Particles >6µm		ASTM D7647	>1300	**865**	297	---
Particles >14µm		ASTM D7647	>160	**6**	51	---
Particles >21µm		ASTM D7647	>40	**1**	17	---
Particles >38µm		ASTM D7647	>10	**0**	3	---
Particles >71µm		ASTM D7647	>3	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>17/14	**17/10**	15/13	---

OIL ANALYSIS REPORT

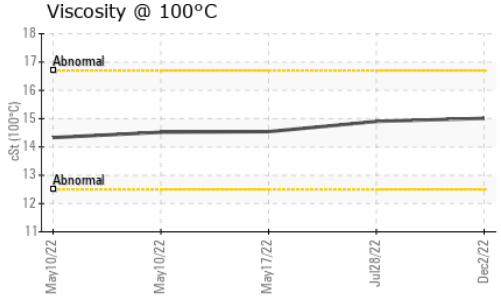
Particle Count



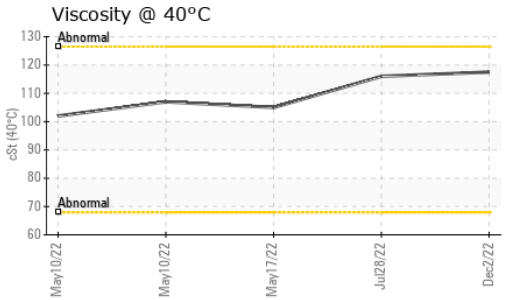
Base Number



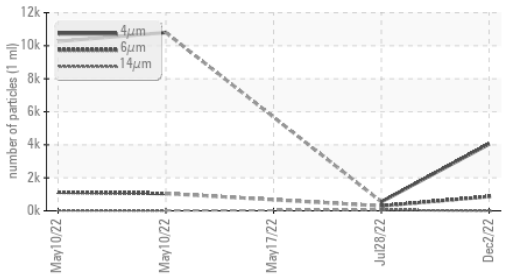
Viscosity @ 100°C



Viscosity @ 40°C



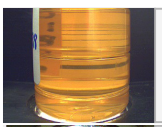
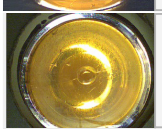
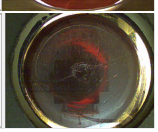
Particle Trend



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		---	5.7	14.5
Base Number (BN)	mg KOH/g	ASTM D2896		**10.28**	10.2	8.8

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**	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		**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**117.5**	116	105
Visc @ 100°C	cSt	ASTM D445		**15.01**	14.9	14.54
Viscosity Index (VI)	Scale	ASTM D2270		**132**	132	142

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	
Bottom				*no image*	

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KL0011289 **Received** : 08 Dec 2022
Lab Number : 05712883 **Diagnosed** : 12 Dec 2022
Unique Number : 10247458 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI)

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)

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