IND II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
BS02 OIL TOTE 12 - HF 46
Component
New (Unused) Oil
Fluid
PROGLINE HF 46 (--- GAL)

RECOMMENDATION

This is a baseline read-out on the submitted sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0936986**	WC0920348	---
Sample Date		Client Info		**01 Jul 2024**	17 May 2024	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**0**	0	---
Filter Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Filter Changed		Client Info		**N/A**	N/A	---
Sample Status				**ATTENTION**	ATTENTION	---

WEAR

Test	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>5	**0**	<1	---
Chromium	ppm	ASTM D5185m	>5	**0**	0	---
Nickel	ppm	ASTM D5185m	>5	**0**	0	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m	>5	**0**	0	---
Aluminum	ppm	ASTM D5185m	>5	**0**	0	---
Lead	ppm	ASTM D5185m	>5	**0**	0	---
Copper	ppm	ASTM D5185m	>5	**<1**	2	---
Tin	ppm	ASTM D5185m	>5	**0**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---

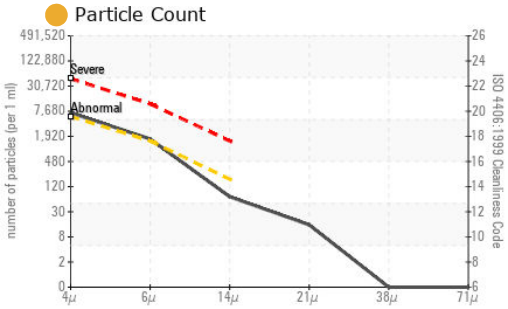
CONTAMINATION

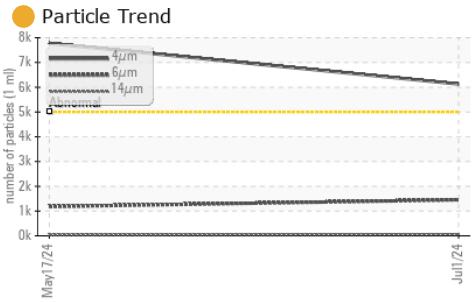
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

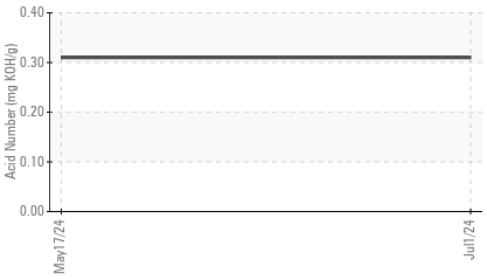
Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>15	**<1**	<1	---
Potassium	ppm	ASTM D5185m	>20	**0**	0	---
Water		WC Method		**NEG**	NEG	---
Particles >4µm		ASTM D7647	>5000	**6130**	7774	---
Particles >6µm		ASTM D7647	>1300	**1453**	1181	---
Particles >14µm		ASTM D7647	>160	**61**	40	---
Particles >21µm		ASTM D7647	>40	**13**	6	---
Particles >38µm		ASTM D7647	>10	**0**	0	---
Particles >71µm		ASTM D7647	>3	**0**	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**20/18/13**	20/17/12	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual		**NEG**	NEG	---

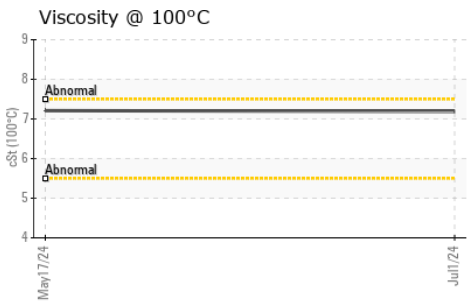
FLUID CONDITION

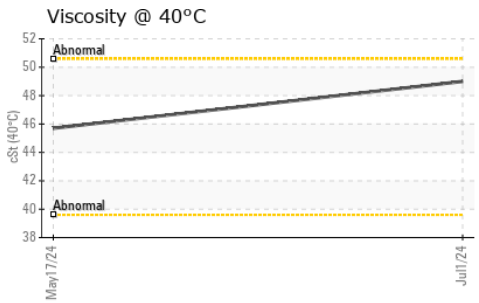
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		**2**	<1	---
Boron	ppm	ASTM D5185m		**0**	0	---
Barium	ppm	ASTM D5185m		**0**	0	---
Molybdenum	ppm	ASTM D5185m		**0**	0	---
Manganese	ppm	ASTM D5185m		**<1**	0	---
Magnesium	ppm	ASTM D5185m		**0**	<1	---
Calcium	ppm	ASTM D5185m		**6**	16	---
Phosphorus	ppm	ASTM D5185m		**237**	228	---
Zinc	ppm	ASTM D5185m		**225**	230	---
Sulfur	ppm	ASTM D5185m		**813**	799	---
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.31**	0.31	---
Visc @ 40°C	cSt	ASTM D445		**49.0**	45.7	---
Visc @ 100°C	cSt	ASTM D445		**7.19**	7.21	---
Viscosity Index (VI)	Scale	ASTM D2270		**105**	118	---

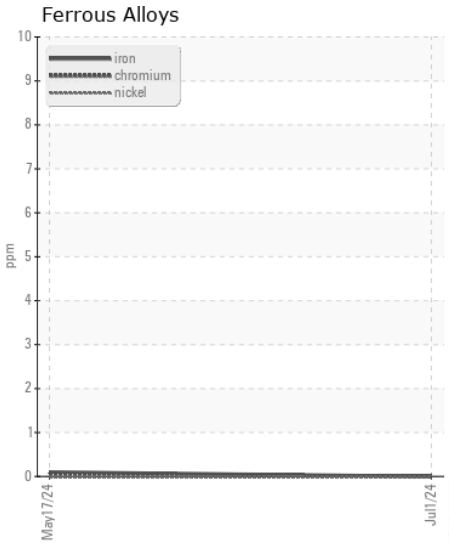


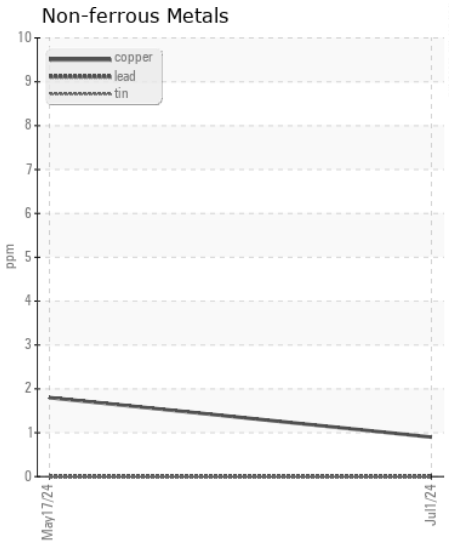


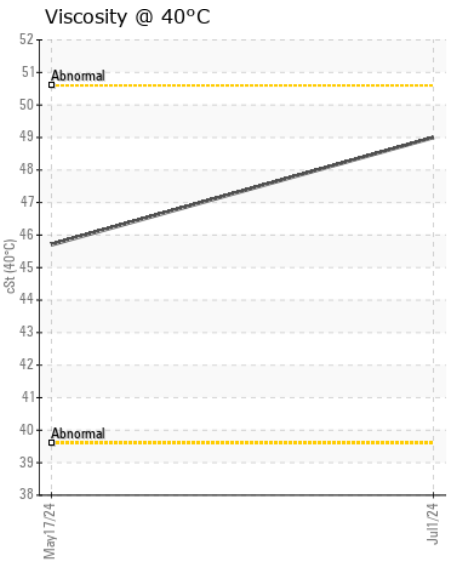


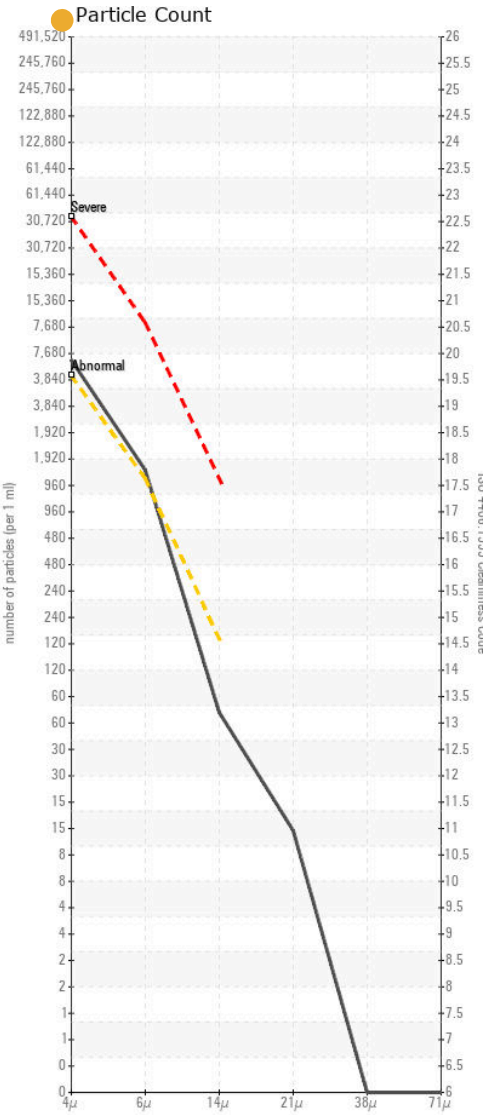


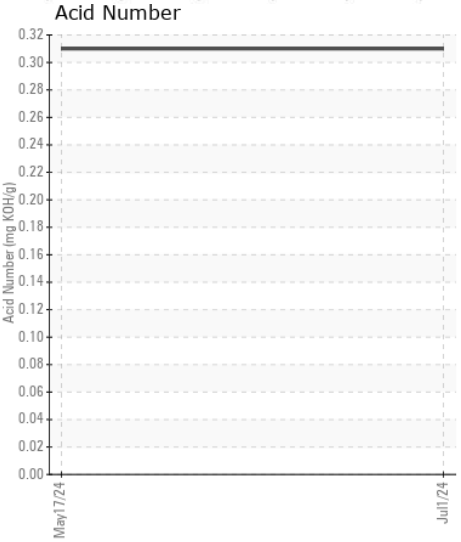












Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0936986 **Received** : 05 Jul 2024
Lab Number : 06228510 **Tested** : 10 Jul 2024
Unique Number : 11112003 **Diagnosed** : 10 Jul 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, VI)

Certificate L2367

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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