WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

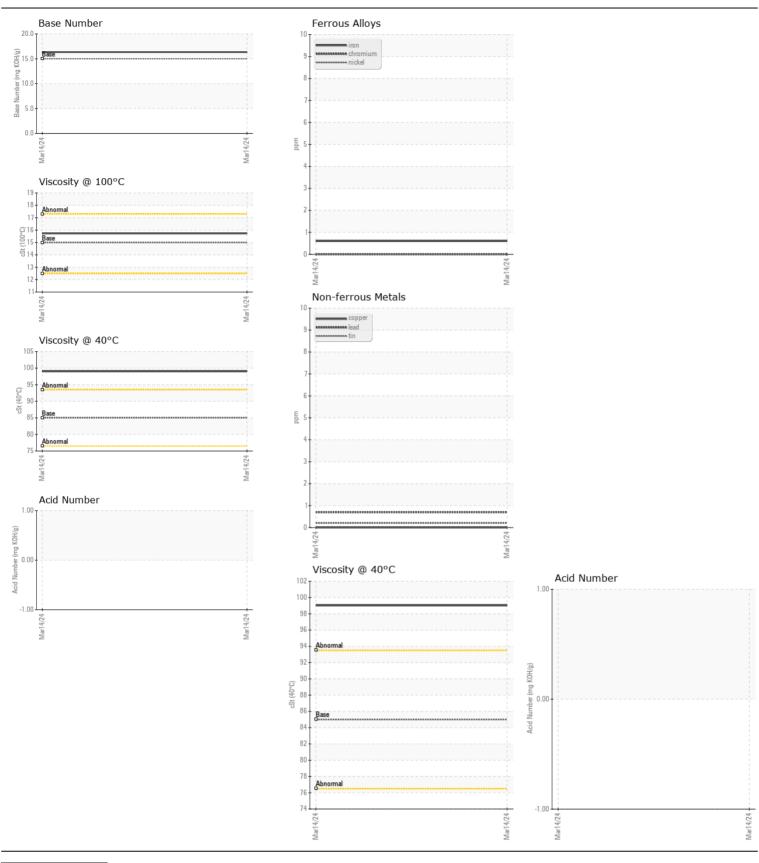
OIL ANALYSIS REPORT

Machine Id

SPARTAN 2019

New (Unused) Oil

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
This is a baseline read-out on the submitted sample.	Sample Number		Client Info		TR06121868		
	Sample Date		Client Info		14 Mar 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m		<1		
	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		0		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		4		
	Potassium	ppm	ASTM D5185m	>20	3		
	Water		WC Method		NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual		NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1		
	Boron	ppm	ASTM D5185m		21		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		135		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		31		
	Calcium	ppm	ASTM D5185m	4500	3941		
	Phosphorus	ppm	ASTM D5185m		900		
	Zinc	ppm	ASTM D5185m	1200	992		
	Sulfur	ppm	ASTM D5185m		5464		
	Base Number (BN)	mg KOH/g	ASTM D2896	15	16.34		
	Visc @ 40°C	cSt	ASTM D445	85	99.02		
	Visc @ 100°C	cSt	ASTM D445	15	15.73		
	Viscosity Index (VI)	Scale	ASTM D2270	470	169		





Laboratory Sample No.

: TR06121868 Lab Number : 06121868

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

Received **Tested** Unique Number: 10936019 Diagnosed

: 18 Mar 2024 : 21 Mar 2024 : 21 Mar 2024 - Jonathan Hester

CHARLES FLATT 925 E PRADERA CT FT WORTH, TX US 76108

Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI) Contact: CHARLES FLATT To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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)

T: F: