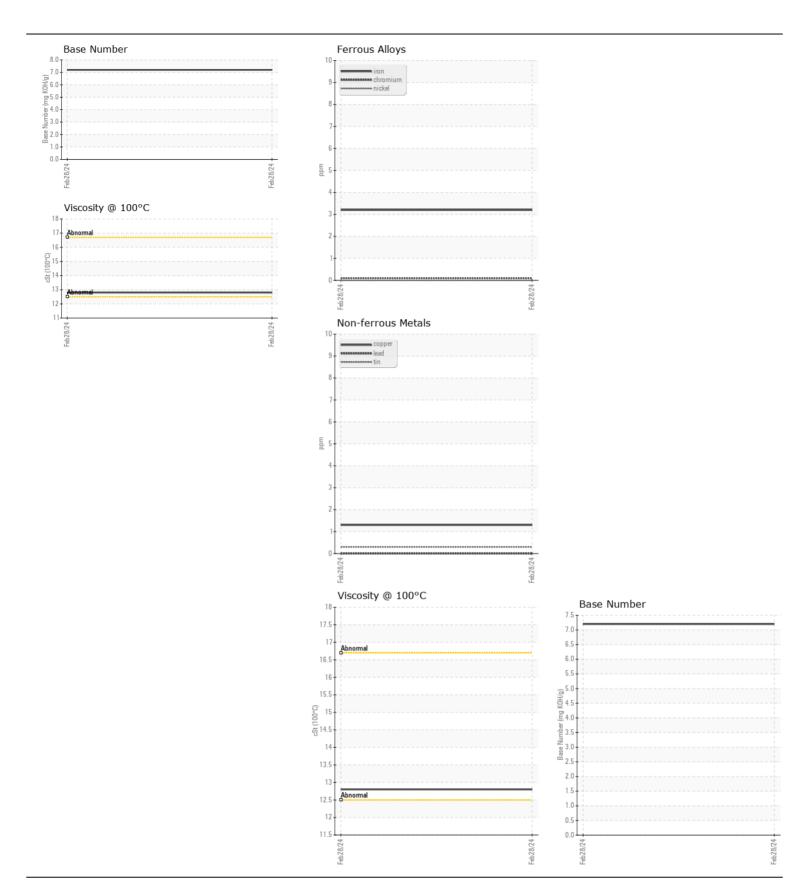
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

HYUNDAI HHKHK607PE0000384

Diesel Engine

{not provided} (GAL)					.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		JR0204297		
	Sample Date		Client Info		28 Feb 2024		
	Machine Age	hrs	Client Info		2000		
	Oil Age	hrs	Client Info		2000		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	3		
	Chromium	ppm	ASTM D5185m		<1		
Metal levels are typical for a components first oil change.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	\3	0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m	-	1		
	Tin	ppm	ASTM D5185m		- <1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Ciliana		ACTM DE10E	05			
CONTAMINATION	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m		5 2		
There is no indication of any contamination in the oil.	Fuel	ppm		>5	<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	>0.2	NEG		
	Soot %	%	*ASTM D7844	~3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	5.1		
	Sulfation	Abs/.1mm	*ASTM D7415		19.1		
	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		*Visual	>0.2	NEG		
ELLID CONDITION	015		AOTM DEADE				
FLUID CONDITION	Sodium Boron	ppm ppm	ASTM D5185m ASTM D5185m		<1 367		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium		ASTM D5185m		0		
	Molybdenum	ppm ppm	ASTM D5185m		84		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		371		
	Calcium	ppm	ASTM D5185m		1223		
	Phosphorus	ppm	ASTM D5185m		921		
	Zinc	ppm	ASTM D5185m		1157		
	Sulfur	ppm	ASTM D5185m		2973		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.2		
	Base Number (BN)			/20	7.2		
	Visc @ 100°C	cSt	ASTM D2030		12.8		
	V130 @ 100 0	001	CFFU IVI UT		12.0	-	







Laboratory Sample No.

: JR0204297 Lab Number : 06105903 Unique Number : 10909400

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Mar 2024 **Tested** Diagnosed

: 04 Mar 2024 : 04 Mar 2024 - Wes Davis

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC

US 28269 Contact: CHARLOTTE SHOP

Test Package : CONST (Additional Tests: TBN) 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.

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (704)596-6198