**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

## HYUNDAI HL955XT HHKHW500CC0000937

Diesel Engine							
not provided} ( GAL)					.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		JR0204284		
	Sample Date		Client Info		28 Feb 2024		
	Machine Age	hrs	Client Info		2813		
	Oil Age	hrs	Client Info		2813		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>100	31		
	Chromium	ppm	ASTM D5185m	>20	<1		
Metal levels are typical for a components first oil change.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		2		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm		>40	0		
	Copper	ppm	ASTM D5185m		8		
	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		19		
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185m		2		
	Fuel	%	ASTM D3524		1.6		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	8.6		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.7		
	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	>0.2	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		2		
LOID CONDITION	Boron	ppm	ASTM D5185m		88		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		85		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium		ASTM D5185m		357		
	Calcium	ppm	ASTM D5185m		1405		
	Phosphorus	ppm	ASTM D5165III		906		
		ppm	ASTM D5165III				
	Zinc Sulfur	ppm			1198		
	Oxidation	ppm Abo/ 1mm	*ASTM D5185m	- OF	2836		
		Abs/.1mm		>20	19.6		
	Base Number (BN)	mg KOH/g			4.1		
	Visc @ 100°C	cSt	ASTM D445		12.2		







Laboratory Sample No.

: JR0204284 Lab Number : 06105884 Unique Number : 10909381

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

**Tested** Diagnosed

: 01 Mar 2024 : 05 Mar 2024

: 05 Mar 2024 - Wes Davis Test Package : CONST ( Additional Tests: FuelDilution, PercentFuel, TBN )

9550 STATESVILLE ROAD CHARLOTTE, NC US 28269 Contact: CHARLOTTE SHOP

JRE - CHARLOTTE

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