WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

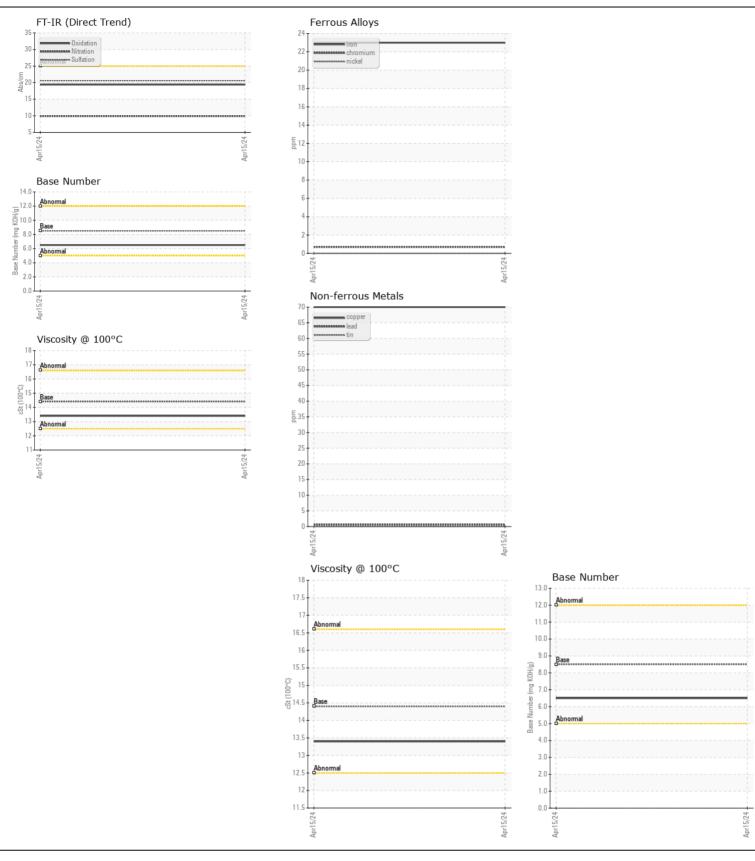
Machine Id

HYUNDAI HYUNDAI HX300 TH-20

Component
Diesel Engine

DIESEL ENGINE OIL SAE 15W//0 (-

DIESEL ENGINE OIL SAE 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		CL0005375		
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		15 Apr 2024		
	Machine Age	hrs	Client Info		541		
	Oil Age	hrs	Client Info		541		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	nnm	ASTM D5185m	>100	23		
WLAIT	Chromium	ppm	ASTM D5185m		<1		
Metal levels are typical for a components first oil change.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>4	1		
		ppm		. 0			
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		70		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m	NONE	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	23		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	9.9		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	4		
TEGIB CONBITION	Boron	ppm	ASTM D5185m		22		
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		5		
	Molybdenum	ppm	ASTM D5185m		54		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m	450	896		
	Calcium	ppm	ASTM D5185m		1455		
	Phosphorus	ppm	ASTM D5185m		828		
	Zinc	ppm	ASTM D5185m		1113		
	Sulfur	ppm	ASTM D5185m		3147		
	Oxidation	Abs/.1mm	*ASTM D7414		19.4		
	Base Number (BN)				6.5		
	Visc @ 100°C	cSt	ASTM D445		13.4		
					.3.4		







Certificate L2367

Laboratory Sample No.

Lab Number : 06159628 Unique Number : 10995051

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : CL0005375

Received **Tested** Diagnosed Test Package : CONST (Additional Tests: TBN)

: 24 Apr 2024 : 25 Apr 2024

: 25 Apr 2024 - Wes Davis

BULLSEYE CONSTRUCTION 581 N POLK ST PINEVILLE, NC

US 28134

Contact: SERVICE MANAGER

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)

T: F: