WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

HYUNDAI 22356459

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		VCP425528	VCP425539	
	Sample Date		Client Info		11 Jul 2024	21 Jan 2024	
	Machine Age	hrs	Client Info		2593	1655	
	Oil Age	hrs	Client Info		300	300	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	>100	10	12	
	Chromium	ppm	ASTM D5185m	>20	0	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		1	2	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		<1	3	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m	710	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Olling		AOTA DEADE		• • • • • • • • • • • • • • • • • • • •		
ONTAMINATION	Silicon	ppm	ASTM D5185m		6	8	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	<1	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	% Ala a /a rea	*ASTM D7844		0.2	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	7.0	6.6	
	Sulfation	Abs/.1mm	*ASTM D7415		19.3	18.2	
	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	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		1	1	
	Boron	ppm	ASTM D5185m		1	4	
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	0	
	Molybdenum	ppm	ASTM D5185m		59	54	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		1013	918	
	Calcium	ppm	ASTM D5185m		1098	1038	
	Phosphorus	ppm	ASTM D5185m		1086	1009	
	Zinc	ppm	ASTM D5185m		1283	1162	
	Sulfur	ppm	ASTM D5185m		3696	2948	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	14.5	
	Base Number (BN)		ASTM D2896	-	8.2	8.5	
	Visc @ 100°C	cSt	ASTM D445		11.0	11.1	





Certificate L2367

Report Id: WOOSTM [WUSCAR] 06235422 (Generated: 07/15/2024 21:51:51) Rev: 1

Laboratory Sample No. Unique Number : 11124256

Lab Number : 06235422

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : VCP425528

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received **Tested**

: 15 Jul 2024 Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 15 Jul 2024 : 15 Jul 2024 - Wes Davis

1022 DELAUM RD ST MARYS, PA US 15857

WOODBED CORP dba DELULLO TRUCKING

Contact: CRYSTAL WILLIAMS crystal@woodbed.com T: (814)834-1464

* - 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)

F: (814)834-9588