WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Machine Id **182339**

Component Diesel Engine							
DIESEL ENGINE OIL SAE 40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
HESSIMILITERATION	Sample Number		Client Info		IL06055298	IL05991472	-
No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		18 Dec 2023	09 Oct 2023	31 Jul 2023
	Machine Age	hrs	Client Info		2970	2519	2697
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	26	21	16
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	2	1
	Nickel	ppm	ASTM D5185m		- <1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	13	19	18
	Lead	ppm	ASTM D5185m	>40	<1	0	0
	Copper	ppm	ASTM D5185m	>330	1	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Fuel content negligible. Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>25	5	5	4
	Potassium	ppm	ASTM D5185m		22	39	33
	Fuel	%	ASTM D3524	>5	0.4	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.4	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	8.0	6.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.6	18.6
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>216	0	2	2
The DN requit indicates that there is quitable alkalinity remaining in the	Boron	ppm	ASTM D5185m	250	3	2	0
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	0
	Molybdenum	ppm	ASTM D5185m	100	60	57	63
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		928	876	963
	Calcium	ppm	ASTM D5185m		1073	993	1105
	Phosphorus	ppm	ASTM D5185m		882	934	1016
	Zinc	ppm	ASTM D5185m		1198	1142	1205
	Sulfur	ppm	ASTM D5185m		3387	2740	3583
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	15.5	14.2

Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

Visc @ 100°C cSt

9.6

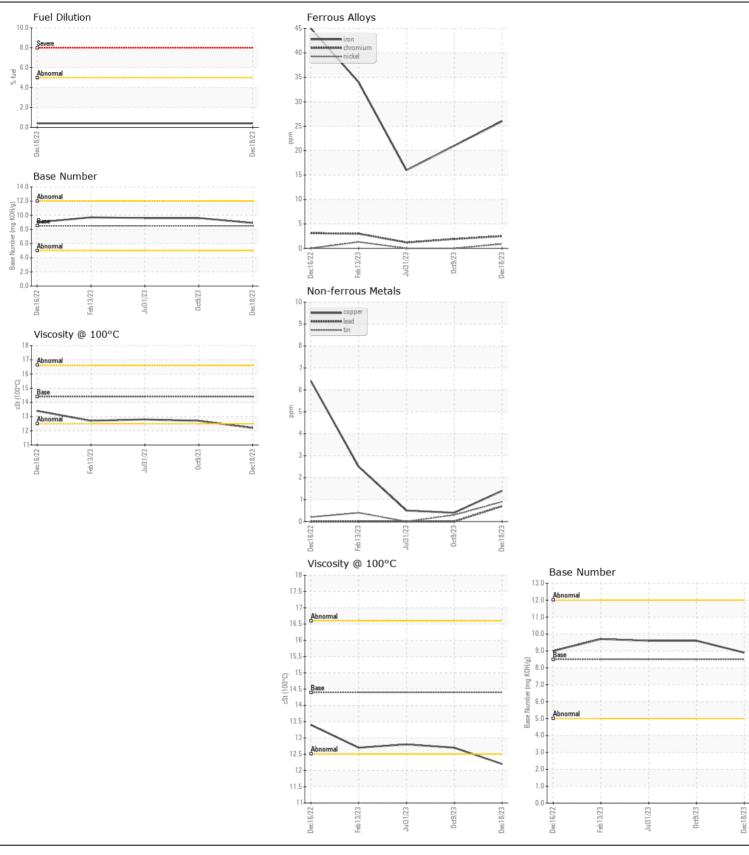
12.7

8.9

12.2

9.6

12.8







Laboratory

Sample No. Lab Number **Unique Number**

: IL06055298 : 06055298 : 10821247

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 09 Jan 2024 Diagnosed : 11 Jan 2024

Diagnostician : Wes Davis Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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)

RUSH TRUCK LEASING - CINCINNATI IDEALEASE

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