WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id **162103**

Component
Diesel Engine

Diesel Engine DIESEL ENGINE OIL SAE 40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		IL06055297	IL05739473	-
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		12 Dec 2023	21 Dec 2022	03 Mar 2022
	Machine Age	hrs	Client Info		6710	4727	2771
	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	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	40	48	49
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	2	4	6
	Nickel	ppm	ASTM D5185m	>4	1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	19	32	75
	Lead	ppm	ASTM D5185m		4	3	1
	Copper	ppm	ASTM D5185m		3	5	14
	Tin	ppm	ASTM D5185m	>15	1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION Elevated aluminum (Al) 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	7	7	5
	Potassium	ppm	ASTM D5185m		51	85	179
	Fuel	PP	WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	2.9	A 3	2.4
	Nitration	Abs/cm	*ASTM D7624	>20	13.1	12.6	11.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	29.4	28.6	26.8
	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	<1	2
The DNI was the disease that the contract to the last the contract to the cont	Boron	ppm	ASTM D5185m	250	10	<1	6
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	1	0
	Molybdenum	ppm	ASTM D5185m	100	64	65	60
	Manganese	ppm	ASTM D5185m		1	1	2
	Magnesium	ppm	ASTM D5185m		912	929	962
	Calcium	ppm	ASTM D5185m		1214	1196	1324
	Phosphorus	ppm	ASTM D5185m		845	1019	1083
	Zinc	ppm	ASTM D5185m		1214	1247	1333
	Sulfur	ppm	ASTM D5185m		3106	2915	2632
	Oxidation	Abs/.1mm	*ASTM D7414		21.7	20.3	19.0
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.6	6.5	9.0

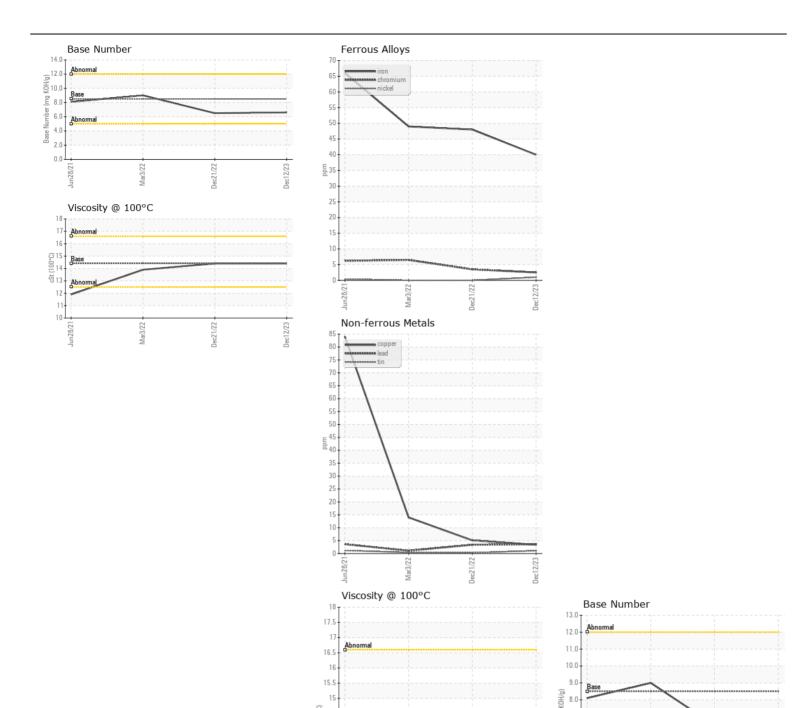
Visc @ 100°C cSt

ASTM D445 14.4

14.4

14.4

13.9







Laboratory Sample No. Lab Number

: IL06055297 : 06055297 Unique Number : 10821246 Test Package : FLEET

cSt (100°C)

13.5

12.

11.5

10.5

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 09 Jan 2024 : 10 Jan 2024 Diagnosed

Mar3/22

: Wes Davis Diagnostician

Dec21/22

(mg 6.0

5.0

0.0

Dec12/23 -

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

Mar3/22 -

11777 HIGHWAY DRIVE CINCINNATI, OH

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