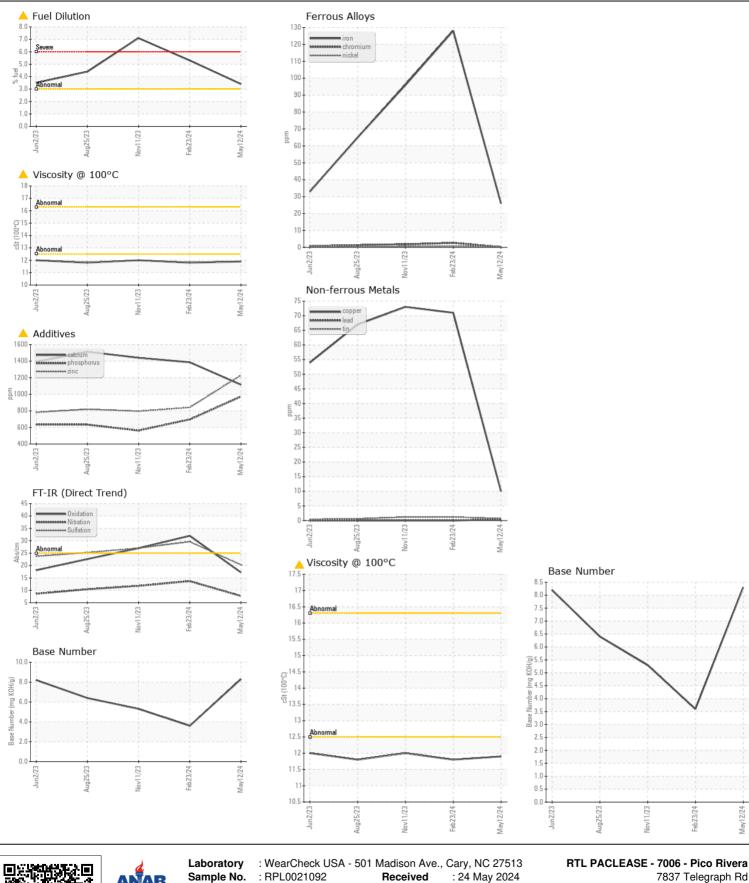


WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL ABNORMAL

Machine Id

CUMMINS 8465038							
Component Diesel Engine							
Fluid							
MOBIL 15W40 (17 QTS)					.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.	Sample Number		Client Info		RPL0021092	RPL0017981	RPL0016380
	Sample Date		Client Info		12 May 2024	23 Feb 2024	11 Nov 2023
	Machine Age	mls	Client Info		25666	20704	14928
	Oil Age	mls	Client Info		25666	20704	14928
	Filter Age	mls	Client Info		25666	20704	14928
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
	Filter Changed		Client Info		Not Changd	Ü	Not Changd
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>90	26	<u> </u>	<u></u> 96
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	<1	3	2
	Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
	Silver	ppm		>2	0	0	0
	Aluminum	ppm	ASTM D5185m		4	<u> </u>	9
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		10	71	73
	Tin	ppm	ASTM D5185m	>15	<1	1	1
	Vanadium White Metal	ppm scalar	*Visual	NONE	0 NONE	<1 NONE	<1 NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
			Visuai	INOINE	·····	INOINE	INOINE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	△ 34	34
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m	>20	3	12	11
	Fuel	%	ASTM D3524	>3.0	4 3.4	△ 5.3	△ 7.1
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.3	0.9	0.6
	Nitration	Abs/dm	*ASTM D7624	>20	7.7	13.7	11.8
	Sulfation Silt	Abs/.1mm	*ASTM D7415 *Visual		20.3 NONE	29.6 NONE	27.0 NONE
	Debris	scalar 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	>118	2	5	4
Magnesium ppm levels are abnormally high. Calcium ppm levels are abnormally low. Visc @ 100°C is abnormal. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m	- 110	13	63	116
	Barium	ppm	ASTM D5185m		0	4	5
	Molybdenum	ppm	ASTM D5185m		67	110	114
	Manganese	ppm	ASTM D5185m		2	9	8
	Magnesium	ppm	ASTM D5185m		<u> </u>	683	680
	Calcium	ppm	ASTM D5185m		<u> </u>	1386	1440
	Phosphorus	ppm	ASTM D5185m		972	696	562
	Zinc	ppm	ASTM D5185m		1229	841	796
	Sulfur	ppm	ASTM D5185m		3474	2221	2120
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	32.0	27.0
	Base Number (BN)		ASTM D2896		8.3	▲ 3.6	5.3
	Visc @ 100°C	cSt	ASTM D445		11.9	<u> </u>	<u>12.0</u>







Unique Number: 11046946

Lab Number : 06190194

: RPL0021092

Received **Tested**

: 24 May 2024 : 30 May 2024 Diagnosed

: 30 May 2024 - Wes Davis

7837 Telegraph Rd

Pico Rivera, CA US 90660 Contact: TECHNICIAN ACCOUNT

Test Package: FLEET (Additional Tests: PercentFuel) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

catherine.anastasio@wearcheck.com T:

* - 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)

Report Id: PAC7006 [WUSCAR] 06190194 (Generated: 05/30/2024 08:57:46) Rev: 1

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