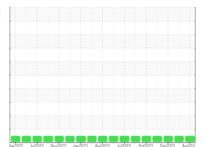


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id

# **CUMMINS ART GENERATOR**

**Diesel Engine** 

SHELL ROTELLA T 15W40 (--- GAL)

## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the

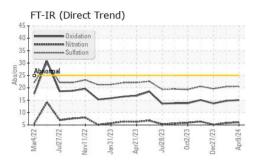
## **Fluid Condition**

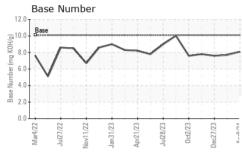
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

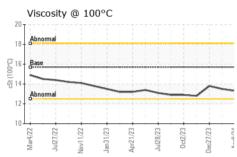
tur2022 Jur2022 Nev2022 Jun2023 Apr2023 Oct2023 Oct2023 Dec2023 Apr202-									
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		KL0013248	KL0013286	KL0013252			
Sample Date		Client Info		09 Apr 2024	26 Jan 2024	27 Dec 2023			
Machine Age	hrs	Client Info		3618	0	45272			
Oil Age	hrs	Client Info		0	0	0			
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINATION	١	method	limit/base	current	history1	history2			
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0			
Water		WC Method	>0.2	NEG	NEG	NEG			
Glycol		WC Method		NEG	NEG	NEG			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>90	<1	4	24			
Chromium	ppm	ASTM D5185m	>20	0	<1	0			
Nickel	ppm	ASTM D5185m	>2	<1	0	<1			
Titanium	ppm	ASTM D5185m	>2	0	0	0			
Silver	ppm	ASTM D5185m	>2	0	0	0			
Aluminum	ppm	ASTM D5185m	>20	3	2	3			
Lead	ppm	ASTM D5185m	>40	0	0	<1			
Copper	ppm	ASTM D5185m	>330	0	0	4			
Tin	ppm	ASTM D5185m	>15	0	0	<1			
Vanadium	ppm	ASTM D5185m		0	0	0			
Cadmium	ppm	ASTM D5185m		0	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	316	462	390	385			
Barium	ppm	ASTM D5185m	0.0	0	0	1			
Molybdenum	ppm	ASTM D5185m	1.2	87	85	85			
Manganese	ppm	ASTM D5185m		0	0	<1			
Magnesium	ppm	ASTM D5185m	24	422	415	431			
Calcium	ppm	ASTM D5185m	2292	1310	1229	1328			
Phosphorus	ppm	ASTM D5185m	1064	944	914	988			
Zinc	ppm	ASTM D5185m	1160	1103	1076	1190			
Sulfur	ppm	ASTM D5185m	4996	3694	3104	3840			
CONTAMINANTS		method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>25	4	4	8			
Sodium	ppm	ASTM D5185m		1	3	21			
Potassium	ppm	ASTM D5185m	>20	2	<1	1			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>6	0.1	0.1	0			
Nitration	Abs/cm	*ASTM D7624	>20	6.1	5.8	5.1			
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20.5	19.6			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2			
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	14.7	13.7			
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	8.1	7.7	7.6			

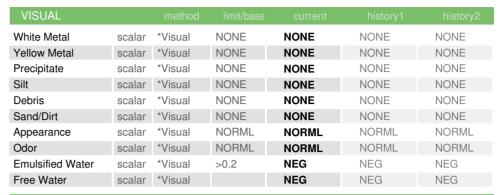


# **OIL ANALYSIS REPORT**



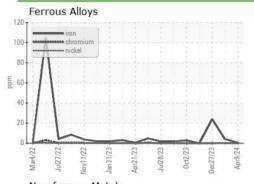


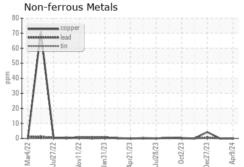


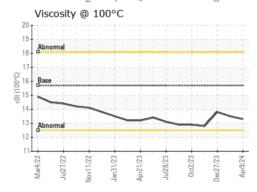


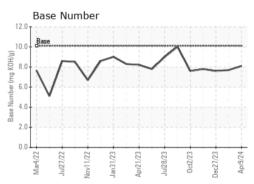
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.7	13.3	13.5	13.8

## **GRAPHS**













Certificate 12367

Laboratory Sample No. Lab Number : 06145193 Unique Number : 10970001

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KL0013248

Received : 10 Apr 2024 **Tested** Diagnosed

: 11 Apr 2024 : 11 Apr 2024 - Wes Davis

**RAMIREZ & SONS** 3404 N ENTERPRISE DR

HOBBS, NM US 88240

Contact: Rick Davidson rickdavidson.rsi@gmail.com

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: