



Certificate of Analysis

Lab Number V7067866

Nancy McAtee
National Transportation Safety Board
490 L'Enfant Plaza, SW
Washington DC 20594

03/26/2021 12:05:14 AM

Client Code : NATINM Sample Date : 03/18/2021 P.O. Number : NTSB2420 POSTED CASH
Herguth ID : LABV7067866
Description : Sampe: CEN20LA271, Engine Oil
N2690J IR 2008

Test Performed	Proc-Rev	Result
Metals by ICP, Organic	1158-4.1	
Iron (Fe)		33 ppm
Aluminum (Al)		9 ppm
Chromium (Cr)		5 ppm
Copper (Cu)		6 ppm
Lead (Pb)		>1000 ppm
Tin (Sn)		<2 ppm
Nickel (Ni)		4 ppm
Silver (Ag)		<0.1 ppm
Silicon (Si)		7 ppm
Sodium (Na)		3 ppm
Boron (B)		<1 ppm
Zinc (Zn)		4 ppm
Phosphorus (P)		35 ppm
Calcium (Ca)		12 ppm
Magnesium (Mg)		1 ppm
Barium (Ba)		<1 ppm
Molybdenum (Mo)		3 ppm
Potassium (K)		16 ppm
Antimony (Sb)		<1 ppm
Particle Count by APC (ISO 11171) ASTM D7647	7647-1.0	
>4 µm(c) ASTM D7647		4195826 count/mL
>6 µm(c) ASTM D7647		80553 count/mL
>10 µm(c) ASTM D7647		2993 count/mL
>14 µm(c) ASTM D7647		572 count/mL
>21 µm(c) ASTM D7647		45 count/mL
>38 µm(c) ASTM D7647		0 count/mL
>70 µm(c) ASTM D7647		0 count/mL
ISO Solid Contamination Code		29/24/16



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Proc-Rev

Result

Data is reported per client specified testing request.

cc: Nancy McAtee

Respectfully Submitted,
SGS North America



Bobby R Licu, Evaluations Manager